

# SPRING SEMESTER

## 2024 - 2025

### AP Pre-Calculus

**JOIN REMIND FOR THIS COURSE: Text 81010, then find:**

**Dox's Class Name: APPC-25**

**Dox's Class Code: @doxpc25**

**Andrade's Class Name: AP Precal**

**Andrade's Class Code: @8kh7a6**

**Please use your First and Last name!!**

**(Capitalize Each, because it messes up the alphabetical order if you do not!)**

Supplemental Textbook pdf: Jay Abramson, Pre-Calculus 2e, [pdf](#)

To download Textbook go to <https://openstax.org/subjects/math> , scroll down and click on PreCalculus 2e, download pdf. There is also an openstax app for download if you want it on your phone.

- **Join AP Classroom:**

- **Doxtater APPC Join Code: YG2W3D**

- **Andrade APPC Join Codes:**

■ 1st: DQ7Q36	6th: MGRPAA
■ 2nd: PJJZ3R	7th: QDE9MY
■ 5th: ZYAQPY	8th: 4LN6ZP

## Current Week's Plans

**AP Pre-Calculus**

***Lesson Plans 5/12 – 5/16 - WEEK #18***

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

***To Mrs. Doxtater's Current and Former Students and Parents***

***Sunday, May 25 (5/25/25)***

***Come Say "Hi and Bye" to Mrs. Doxtater***

***Celebration of 42 yrs as a Teacher from 2:00 - 4:00 p.m.***

***Memorial Drive Presbyterian Church in the Parlor***

***11612 Memorial Dr., 77024***

***Light Refreshments, Photo Booth, Guest Book, Special Event Memento***

**MONDAY 5/12:** ***1 Day until Game Day***

**AB-BC Calculus / Music Theory & Seminar**

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**
  - Discuss AP MCQ & FRQ Review Packets assigned for the week
- **GET A LOT OF SLEEP TONIGHT!!!**
- **ARRIVE AT SCHOOL NO LATER THAN 7:15 TOMORROW (TUESDAY) MORNING!!!**
- **Pre-Calculus Everyday!!**

**TUESDAY 5/13:** ***GAME DAY!!!***

**Pre-Calculus AB-BC & French Lang and Culture / Environmental Science & Physics 2: Algebra 2**

- **ARRIVE AT SCHOOL NO LATER THAN 7:15 THIS MORNING!!!**

**Math Recovery Day - Mathy Activities**

**Objective:** End your year on a strong note!

**Agenda:**

- **Math Recovery Day - Mathy Activities**
  - TBA

**LOpps:**

- TBA

**WEDNESDAY 5/14:** ***Period 1 - 8 Day***

**WEDNESDAY: English Lang and Composition & German Lang and Culture / Physics C: Mechanics**

**THURSDAY 5/15:**

**THURSDAY: Art History & Spanish Lang and Culture / Comp Science Principles & Physics C: Elec & Magnet**

**SENIOR FINALS: 1st & 5th Period - THURSDAY**

Period	Start	End
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2	7:45 AM	8:35 AM
3	8:40 AM	9:25 AM
1	9:30 AM	11:00 AM
Lunch	11:05 PM	12:00 PM
6	12:10 PM	12:55 PM
5	1:00 PM	2:30 PM
8	2:35 PM	3:25 PM

### Math Recovery Day - Mathy Activities

**Objective:** End your year on a strong note!

**Agenda:**

- Math Recovery Day - Mathy Activities
  - TBA

**LOpps:**

- TBA

**FRIDAY 5/16: *SENIOR FINALS!!***

**Physics 1: Algebra & Spanish Literature and Culture / Psychology**

**SENIOR FINALS: 2nd & 6th Period**

Period	Start	End
3	7:45 AM	8:35 AM
4	8:40 AM	9:25 AM
2	9:30 AM	11:00 AM
Lunch	11:05 PM	12:00 PM
5	12:10 PM	12:55 PM
6	1:00 PM	2:30 PM
7	2:35 PM	3:25 PM

### Math Recovery Day - Mathy Activities

**Objective:** End your year on a strong note!

**Agenda:**

- Math Recovery Day - Mathy Activities
  - TBA

**LOpps:**

- TBA

## Last Week's Plans

**AP Pre-Calculus**

***Lesson Plans 5/5 – 5/9 - WEEK #17***

## **SPRING TRAINING - WEEK 8!!**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**MONDAY 5/5: 8 Days until Game Day**

**Biology & Latin / Microeconomics & European History**

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**

- Work on AP MCQ & FRQ Review Packets
- You have a LOT of materials to work on to prepare for this exam
- Answer keys upon request

**LOpps:**

- Work on AP MCQ & FRQ Review Packets
  - Work on anything that you have struggled with
- Review all Tests from the whole year!!
- **Pre-Calculus Everyday!!**

**TUESDAY 5/6: 7 Days until Game Day**

**Chemistry & Geography / US Government**

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**

- Work on AP MCQ & FRQ Review Packets
- You have a LOT of materials to work on to prepare for this exam
- Answer keys upon request

**LOpps:**

- Work on AP MCQ & FRQ Review Packets
  - Work on anything that you have struggled with
- Review all Tests from the whole year!!
- **Pre-Calculus Everyday!!**

**WEDNESDAY 5/7 - THURSDAY 5/8: 6/5 Days until Game Day**

**WEDNESDAY: English Literature / Computer Science A & Comparative Government**

**THURSDAY: Statistics & African American Studies / World History: Modern & Japanese Lang and Culture**

**AP Exam Preparation**

**Objective: Master Course Curriculum**

**Agenda:**

- **Classwork:**

- Work on AP MCQ & FRQ Review Packets
- You have a LOT of materials to work on to prepare for this exam
- Answer keys upon request

**LOpps:**

- Work on AP MCQ & FRQ Review Packets
  - Work on anything that you have struggled with
- Review all Tests from the whole year!!
- **Pre-Calculus Everyday!!**

**FRIDAY 5/9: 4 Days until Game Day**

**US History & Italian Lang and Culture / Macroeconomics & Chinese Lang and Culture**

**AP Exam Preparation**

**Objective: Master Course Curriculum**

**Agenda:**

- **Classwork:**

- Work on AP MCQ & FRQ Review Packets
- You have a LOT of materials to work on to prepare for this exam
- Answer keys upon request

**LOpps:**

- Work on AP MCQ & FRQ Review Packets
  - Work on anything that you have struggled with
- Review all Tests from the whole year!!
- **Pre-Calculus Everyday!!**

**To Mrs. Doxtater's Current and Former Students and Parents**

**Sunday, May 25 (5/25/25)**

**Come Say "Hi and Bye" to Mrs. Doxtater**

**Celebration of 42 yrs as a Teacher from 2:00 - 4:00 p.m.**

**Memorial Drive Presbyterian Church in the Parlor**

**11612 Memorial Dr., 77024**

**Light Refreshments, Photo Booth, Guest Book, Special Event Memento**

## Next Week's Plans

### **AP Pre-Calculus**

### **Lesson Plans 5/19 – 5/23 - WEEK #19**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**To Mrs. Doxtater's Current and Former Students and Parents**

**Sunday, May 25 (5/25/25)**

**Come Say "Hi and Bye" to Mrs. Doxtater**

**Celebration of 42 yrs as a Teacher from 2:00 - 4:00 p.m.**

**Memorial Drive Presbyterian Church in the Parlor**

**11612 Memorial Dr., 77024**

**Light Refreshments, Photo Booth, Guest Book, Special Event Memento**

**MONDAY 5/19: SENIOR FINALS!!**

**SENIOR FINALS: 3rd & 7th Period**

Period	Start	End
1	7:45 AM	8:35 AM
4	8:40 AM	9:25 AM
3	9:30 AM	11:00 AM
Lunch	11:05 PM	12:00 PM
5	12:10 PM	12:55 PM
7	1:00 PM	2:30 PM
8	2:35 PM	3:25 PM

**Math Recovery Day - Mathy Activities**

**Objective:** End your year on a strong note!

**Agenda:**

- - TBA

**TUESDAY 5/20: SENIOR FINALS!!**

**SENIOR FINALS: 4th & 8th Period**

Period	Start	End
1	7:45 AM	8:35 AM

2	8:40 AM	9:25 AM
4	9:30 AM	11:00 AM
Lunch	11:05 PM	12:00 PM
6	12:10 PM	12:55 PM
7	1:00 PM	1:45 PM
8	1:50 PM	3:25 PM

### Math Recovery Day - Mathy Activities

**Objective:** End your year on a strong note!

**Agenda:**

- Math Recovery Day - Mathy Activities
  - TBAYYY2

### WEDNESDAY 5/21:

### Math Recovery Day - Mathy Activities

**Objective:** End your year on a strong note!

**Agenda:**

- Math Recovery Day - Mathy Activities
  - TBA

### THURSDAY 5/22:

### Math Recovery Day - Mathy Activities

**Objective:** End your year on a strong note!

**Agenda:**

- Math Recovery Day - Mathy Activities
  - TBA

### FRIDAY 5/23:

### Math Recovery Day - Mathy Activities

**Objective:** End your year on a strong note!

**Agenda:**

- Math Recovery Day - Mathy Activities
  - TBA

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## Future Weeks' Plans

### AP Pre-Calculus

### *Lesson Plans 5/26 – 5/30 - WEEK #20*

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**MONDAY 5/26:**

**Math Recovery Day - Mathy Activities**

**Objective:** End your year on a strong note!

**Agenda:**

- **Math Recovery Day - Mathy Activities**
  - TBA

**TUESDAY 5/27:**

**Math Recovery Day - Mathy Activities**

**Objective:** End your year on a strong note!

**Agenda:**

- **Math Recovery Day - Mathy Activities**
  - TBA

**WEDNESDAY 5/28:**

**Math Recovery Day - Mathy Activities**

**Objective:** End your year on a strong note!

**Agenda:**

- **Math Recovery Day - Mathy Activities**
  - TBA

**THURSDAY 5/29:**

**Math Recovery Day - Mathy Activities**

**Objective:** End your year on a strong note!

**Agenda:**

- **Math Recovery Day - Mathy Activities**
  - TBA

**FRIDAY 5/30:**

**Math Recovery Day - Mathy Activities**

**Objective:** End your year on a strong note!

**Agenda:**

- **Math Recovery Day - Mathy Activities**
  - TBA

**FRIDAY 5/30:** *9th - 11th FINALS - 1st & 5th Periods*

Period	Start	End
2	7:45 AM	9:25 AM
1	9:30 AM	11:00 AM
Lunch	11:05 PM	12:05 PM



6	12:10 PM	1:50 PM
5	1:55 PM	3:25 PM

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**MONDAY 6/2:** *9th - 11th FINALS - 2nd & 6th Periods*

Period	Start	End
3	7:45 AM	9:25 AM
2	9:30 AM	11:00 AM
Lunch	11:05 PM	12:05 PM
7	12:10 PM	1:50 PM
6	1:55 PM	3:25 PM

**TUESDAY 6/3:** *9th - 11th FINALS - 3rd & 7th Periods*

Period	Start	End
4	7:45 AM	9:25 AM
3	9:30 AM	11:00 AM
Lunch	11:05 PM	12:05 PM
8	12:10 PM	1:50 PM
7	1:55 PM	3:25 PM

**WEDNESDAY 6/4:** *9th - 11th FINALS - 4th & 8th Periods*

Period	Start	End
1	7:45 AM	9:25 AM
4	9:30 AM	11:00 AM
Lunch	11:05 PM	12:05 PM
5	12:10 PM	1:50 PM
8	1:55 PM	3:25 PM

**THURSDAY 6/5:** *DOX'S LAST DAY OF EMPLOYMENT!!!*

Final Day for Teachers

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## [Previous Weeks' Plans](#)

**AP Pre-Calculus**

***Lesson Plans 4/28 – 5/2 - WEEK #16***

***SPRING TRAINING - WEEK 7!!***

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**LOpps assigned for this week:**

- **Work on AP MCQ & FRQ Review Packets**
  - **REMAINING MCQ Review Packets:**
    - **Unit 1: #151 - 184**
    - **Unit 2: any problems you had trouble with**
    - **Unit 3: any problems you had trouble with**
  - **FRQ 1 Task Models L & M from AP FRQ 1 Review Packet #2**
  - **FRQ 2 Task Models K & L from AP FRQ 2 Review Packet #2**
  - **FRQ 3 Task Models N, O & P from AP FRQ 3 Review Packet #2**
  - **FRQ 4 Task Models you struggled on from AP FRQ 4 Review Packet #1**
- **Review all Tests from the whole year!!**

**MONDAY 4/28:** *15 Days until Game Day*

**Periods 1 - 8**

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**
  - **Discuss *Mock Exam #2 Calculator MC (Section I, Part B: Calculator Multiple Choice)***
  - **Discuss AP MCQ & FRQ Review Packets assigned for the week**

**LOpps:**

- **See LOpps assigned for this week at the top of the week**
- ***Pre-Calculus Everyday!!***

**TUESDAY 4/29 - WEDNESDAY 4/30:** *14/13 Days until Game Day*

**TUESDAY: STAAR ALG I Exam - Periods 6, 5, 4, L, 2**

Period	Start	End
6	7:45 AM	9:15 AM
5	9:20 AM	10:55 AM
4	11:00 AM	12:30 PM
Lunch	12:30 PM	1:30 PM
2	1:35 PM	3:25 PM

**WEDNESDAY: Periods 1, 3, Lunch, 7, 8**

Period	Start	End
1	7:45 AM	9:25 AM
3	9:30 AM	11:05 AM
Lunch	11:05 AM	12:05 PM
7	12:10 PM	1:45 PM
8	1:50 PM	3:25 PM

## AP Exam Preparation

**Objective:** Master Course Curriculum

### Agenda:

- **Classwork:**

- **Finish Discussing Mock Exam #2 Calculator MC (Section I, Part B: Calculator Multiple Choice)**
- **Discuss Mock Exam #2 Non-Calculator MC (Section I, Part A: Non-Calculator Multiple Choice)**
- Discuss AP MCQ & FRQ Review Packets assigned for the week

### LOpps:

- See LOpps assigned for this week at the top of the week
- **Pre-Calculus Everyday!!**

**THURSDAY 5/1: 12 Days until Game Day**

**Periods 1 - 8**

## AP Exam Preparation

**Objective:** Master Course Curriculum

### Agenda:

- **Classwork:**

- **Discuss Mock Exam #1 FRQ (Section II, Part A & B)**
- Discuss AP MCQ & FRQ Review Packets assigned for the week

### LOpps:

- See LOpps assigned for this week at the top of the week
- **Pre-Calculus Everyday!!**

**FRIDAY 5/2: 11 Days until Game Day**

**No School**

### LOpps:

- **Work on AP MCQ & FRQ Review Packets - THIS IS A REPEAT**
  - **REMAINING MCQ Review Packets:**
    - **Unit 1: #143 - 184**
    - **Unit 2: Any you had trouble with**
    - **Unit 3: #143 - 158**
  - **FRQ 1 Task Models you struggled on from AP FRQ 1 Review Packets #1 & #2**
  - **FRQ 2 Task Models you struggled on from AP FRQ 2 Review Packets #1 & #2**
  - **FRQ 3 Task Models you struggled on from AP FRQ 3 Review Packets #1 & #2**
  - **FRQ 4 Task Models you struggled on from AP FRQ 4 Review Packet #1**
- **Review all Tests from the whole year!!**

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## AP Pre-Calculus

**Lesson Plans 4/21 – 4/25 - WEEK #15**

**SPRING TRAINING - WEEK 6!!**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

- **MOCK EXAM #2 THIS WEEK IN CLASS!!!**

- **MONDAY:**

- **Section II, Part A: Calculator Free Response (30 min)**

- **TUESDAY:**

- **Section II, Part B: Non-Calculator Free Response (30 min)**

- **WEDNESDAY / THURSDAY:**

- **Section I, Part A: Non-Calculator Multiple Choice (80 min)**

- **FRIDAY:**

- **Section I, Part B: Calculator Multiple Choice (40 min)**

**LOpps assigned for this week:**

- **Work on AP MCQ & FRQ Review Packets**

- **MCQ Review Packets:**

- **Unit 1: #131 - 150**

- **Unit 2: #131 - 142**

- **Unit 3: #131 - 158**

- **FRQ 1 Task Models I, J & K from AP FRQ 1 Review Packet #2**

- **FRQ 2 Task Models K & L from AP FRQ 2 Review Packet #2**

- **FRQ 3 Task Models K, L & M from AP FRQ 3 Review Packet #2**

- **FRQ 4 Task Model H from AP FRQ 4 Review Packet #1**

**MONDAY 4/21: 22 Days until Game Day**

**Periods 1 - 8**

**AP Pre-Calculus MOCK EXAM #2 - In-Class**

- **Section II, Part A: Calculator Free Response (30 min)**

**Agenda:**

- **Classwork:**

- *Take Mock Exam #2: Section II, Part A*

**LOpps:**

- **MOCK EXAM THIS WEEK IN CLASS!!! STUDY MCQ & FRQ REVIEW PACKETS, WORKSHEETS & OLD TESTS FOR:**

- **TUESDAY:**

- **Section II, Part B: Non-Calculator Free Response (30 min)**

- **WEDNESDAY / THURSDAY:**

- **Section I, Part A: Non-Calculator Multiple Choice (80 min)**

- **FRIDAY:**

- **Section I, Part B: Calculator Multiple Choice (40 min)**

- **Pre-Calculus Everyday!!**

**TUESDAY 4/22: 21 Days until Game Day**

**Periods 1 - 8**

**AP Pre-Calculus MOCK EXAM #2 - In-Class**

- **Section II, Part B: Non-Calculator Free Response (30 min)**

### Agenda:

- **Classwork:**

- Take Mock Exam #2: Section II, Part B

### LOpps:

- **MOCK EXAM THIS WEEK IN CLASS!!! STUDY MCQ & FRQ REVIEW PACKETS, WORKSHEETS & OLD TESTS FOR:**

- **WEDNESDAY / THURSDAY:**

- **Section I, Part A: Non-Calculator Multiple Choice (80 min)**

- **FRIDAY:**

- **Section I, Part B: Calculator Multiple Choice (40 min)**

- **Pre-Calculus Everyday!!**

**WEDNESDAY 4/23 - THURSDAY 4/24: 20/19 Days until Game Day**

**WEDNESDAY: STAAR BIO Exam - Periods 7, 6, 5, Lunch, 3**

Period	Start	End
7	7:45 AM	9:15 AM
6	9:20 AM	10:55 AM
5	11:00 AM	12:30 PM
Lunch	12:30 PM	1:30 PM
3	1:35 PM	3:25 PM

**THURSDAY: Periods 1, 2, Lunch, 4, 8**

Period	Start	End
1	7:45 AM	9:25 AM
2	9:30 AM	11:05 AM
Lunch	11:05 AM	12:05 PM
4	12:10 PM	1:45 PM
8	1:50 PM	3:25 PM

**AP Pre-Calculus MOCK EXAM #2 - In-Class**

- **Section I, Part A: Non-Calculator Multiple Choice (80 min)**

### Agenda:

- **Classwork:**

- Take Mock Exam #2: Section I, Part A

### LOpps:

- **MOCK EXAM THIS WEEK IN CLASS!!! STUDY MCQ & FRQ REVIEW PACKETS, WORKSHEETS & OLD TESTS FOR:**

- **FRIDAY:**

- **Section I, Part B: Calculator Multiple Choice (40 min)**

- **Pre-Calculus Everyday!!**

**FRIDAY 4/25: 18 Days until Game Day**

Periods 1 - 8

**AP Pre-Calculus MOCK EXAM #2 - In-Class**

- **Section I, Part B: Calculator Multiple Choice (40 min)**

**Agenda:**

- **Classwork:**
  - Take Mock Exam #2: Section I, Part B

**LOpps:**

- **Work on AP MCQ & FRQ Review Packets**
  - **MCQ #121 - 142 from UNITS 1-3 AP MCQ Review Packets**
  - **REMAINING MCQ Review Packets**
    - **Unit 1: #151 - 184**
    - **Unit 2: any problems you had trouble with**
    - **Unit 3: any problems you had trouble with**
  - **FRQ 1 Task Models L & M from AP FRQ 1 Review Packet #2**
  - **FRQ 2 Task Models K & L from AP FRQ 2 Review Packet #2**
  - **FRQ 3 Task Models N, O & P from AP FRQ 3 Review Packet #2**
  - **FRQ 4 Task Models you struggled on from AP FRQ 4 Review Packet #1**
- **Review all Tests from the whole year!!**
- **Pre-Calculus Everyday!!**

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**AP Pre-Calculus**  
**Lesson Plans 4/14 – 4/18 - WEEK #14**  
**SPRING TRAINING - WEEK 5!!**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**LOpps assigned for this week:**

- **Work on AP MCQ & FRQ Review Packets**
  - **MCQ #101 - 130 from UNITS 1-3 AP MCQ Review Packets**
  - **FRQ 1 Task Models G & H from AP FRQ 1 Review Packet #1**
  - **FRQ 2 Task Models I, J & K from AP FRQ 2 Review Packet #2**
  - **FRQ 3 Task Models I, J & K from AP FRQ 3 Review Packet #2**
  - **FRQ 4 Task Model G from AP FRQ 4 Review Packet #1**
- **Review all Tests from the whole year!!**

**MONDAY 4/14: 29 Days until Game Day**

**Periods 1, 3, Lunch, 4, 7**

Period	Start	End
1	7:45 AM	9:25 AM
3	9:30 AM	11:05 AM
Lunch	11:05 AM	12:05 PM
4	12:10 PM	1:45 PM

7	1:50 PM	3:25 PM
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### AP Exam Preparation

**Objective:** Master Course Curriculum

#### Agenda:

- **Classwork:**
  - **Get AP Pre-Calculus FRQ #1- 4 Review Packets #2**
    - **FRQ 1: Task Models I - M**
    - **FRQ 2: Task Models I - L**
    - **FRQ 3: Task Models I - P**
    - **FRQ 4: No new Task Models at this time**
  - **Discuss AP MCQ & FRQ Review Packets assigned for the week**

#### LOpps:

- **See LOpps assigned for this week at the top of the week**
- **Pre-Calculus Everyday!!**

**TUESDAY 4/15: 30 Days until Game Day**

**STAAR English II - Periods 8, 6, 5, Lunch, 2**

Period	Start	End
8	7:45 AM	9:15 AM
6	9:20 AM	10:55 AM
5	11:00 AM	12:30 PM
Lunch	12:30 PM	1:30 PM
2	1:35 PM	3:25 PM

### AP Exam Preparation

**Objective:** Master Course Curriculum

#### Agenda:

- **Classwork:**
  - **Discuss AP MCQ & FRQ Review Packets assigned for the week**

#### LOpps:

- **See LOpps assigned for this week at the top of the week**
- **Pre-Calculus Everyday!!**

**WEDNESDAY 4/16 - THURSDAY 4/17: 29/28 Days until Game Day**

**WEDNESDAY: STAAR US HIST - Periods 7, 6, 5, Lunch, 3**

Period	Start	End
7	7:45 AM	9:15 AM
6	9:20 AM	10:55 AM
5	11:00 AM	12:30 PM
Lunch	12:30 PM	1:30 PM
3	1:35 PM	3:25 PM

**THURSDAY: Periods 1, 2, Lunch, 4, 8**

Period	Start	End
1	7:45 AM	9:25 AM
2	9:30 AM	11:05 AM
Lunch	11:05 AM	12:05 PM
4	12:10 PM	1:45 PM
8	1:50 PM	3:25 PM

### AP Exam Preparation

**Objective:** Master Course Curriculum

### Agenda:

- **Classwork:**
  - Discuss AP MCQ & FRQ Review Packets assigned for the week

### LOpps:

- See LOpps assigned for this week at the top of the week
- **Pre-Calculus Everyday!!**

**FRIDAY 4/18:** 27 Days until Game Day

**Spring Holiday**

**No School**

### LOpps:

- Work on AP MCQ & FRQ Review Packets
  - MCQ Review Packets:
    - Unit 1: #131 - 150
    - Unit 2: #131 - 142
    - Unit 3: #131 - 158
  - FRQ 1 Task Models I, J & K from AP FRQ 1 Review Packet #2
  - FRQ 2 Task Models K & L from AP FRQ 2 Review Packet #2
  - FRQ 3 Task Models K, L & M from AP FRQ 3 Review Packet #2
  - FRQ 4 Task Model H from AP FRQ 4 Review Packet #1
- Review all Tests from the whole year!!
- **Pre-Calculus Everyday!!**

## AP Pre-Calculus

**Lesson Plans 4/7 – 4/11 - WEEK #13**

**SPRING TRAINING - WEEK 4!!**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.  
*Italicized sections* represent that the lesson has occurred.

### LOpps assigned for this week:

- Work on AP MCQ & FRQ Review Packets
  - MCQ #71 - 100 from UNITS 1-3 AP MCQ Review Packets
  - FRQ 1 Task Models E & F from AP FRQ 1 Review Packet #1
  - FRQ 2 Task Models F, G & H from AP FRQ 2 Review Packet #1
  - FRQ 3 Task Models F, G & H from AP FRQ 3 Review Packet #1



- FRQ 4 Task Models E & F from AP FRQ 4 Review Packet #1

- Review all Tests from the whole year!!

**MONDAY 4/7:** *36 Days until Game Day*

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**
  - Discuss Mock Exam #1 FRQ (Section II, Part A & B)
    - All Students
    - (Andrade does Calculator MC Section I, Part B)
  - Address "Top of the Google Doc"
  - Discuss AP MCQ & FRQ Review Packets assigned for the week

**LOpps:**

- See LOpps assigned for this week at the top of the week
- *Pre-Calculus Everyday!!*

**TUESDAY 4/8:** *35 Days until Game Day*

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**
  - Mock Exam #1 Non-Calculator MC (Section I, Part A: Non-Calculator Multiple Choice)
    - SAT Students CONTINUE
  - Discuss AP MCQ & FRQ Review Packets assigned for the week

**LOpps:**

- See LOpps assigned for this week at the top of the week
- *Pre-Calculus Everyday!!*

**WEDNESDAY 4/9:** *34 Days until Game Day*

**WEDNESDAY:** *Periods 1, 3, Lunch, 5, 7*

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**
  - Mock Exam #1 Calculator MC (Section I, Part B: Calculator Multiple Choice)
    - SAT Students
  - Discuss AP MCQ & FRQ Review Packets assigned for the week

**LOpps:**

- See LOpps assigned for this week at the top of the week
- *Pre-Calculus Everyday!!*

**THURSDAY 4/10:** *33 Days until Game Day*

**THURSDAY:** **STAAR ENG I Exam** - Periods 8, 6, 4, Lunch, 2

Period	Start	End
8	7:45 AM	9:15 AM
6	9:20 AM	10:55 AM
4	11:00 AM	12:30 PM
Lunch	12:30 PM	1:30 PM
2	1:35 PM	3:25 PM

### AP Exam Preparation

**Objective:** Master Course Curriculum

### Agenda:

- **Classwork:**
  - **Mock Exam #1 Calculator MC (Section I, Part B: Calculator Multiple Choice)**
    - **SAT Students**
  - **Discuss AP MCQ & FRQ Review Packets assigned for the week**

### LOpps:

- **See LOpps assigned for this week at the top of the week**
- **Pre-Calculus Everyday!!**

**FRIDAY 4/11:** *32 Days until Game Day*

### AP Exam Preparation

**Objective:** Master Course Curriculum

### Agenda:

- **Classwork:**
  - **Discuss AP MCQ & FRQ Review Packets assigned for the week**

### LOpps:

- **Work on AP MCQ & FRQ Review Packets**
  - **MCQ #101 - 130 from UNITS 1-3 AP MCQ Review Packets**
  - **FRQ 1 Task Models G & H from AP FRQ 1 Review Packet #1**
  - **FRQ 2 Task Models I, J & K from AP FRQ 2 Review Packet #2**
  - **FRQ 3 Task Models I, J & K from AP FRQ 3 Review Packet #2**
  - **FRQ 4 Task Model G from AP FRQ 4 Review Packet #1**
- **Review all Tests from the whole year!!**
- **Pre-Calculus Everyday!!**

**MONDAY 3/31:** *43 Days until Game Day*

**No School**

- **Pre-Calculus Everyday!!**

## AP Pre-Calculus

*Lesson Plans 3/31 – 4/4 - WEEK #12*

**SPRING TRAINING - WEEK 3!!**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**LOpps assigned for this week:**

- **Work on AP MCQ & FRQ Review Packets**
  - MCQ #31 - 70 from UNITS 1-3 AP MCQ Review Packets
  - FRQ 1 Task Models C & D from AP FRQ 1 Review Packet #1
  - FRQ 2 Task Models C, D & E from AP FRQ 2 Review Packet #1
  - FRQ 3 Task Models C, D & E from AP FRQ 3 Review Packet #1
  - FRQ 4 Task Models C & D from AP FRQ 4 Review Packet #1
- **Review all Tests from the whole year!!**

**TUESDAY 4/1:** **42 Days until Game Day**

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**
  - Return & Discuss Test #4 (20 min)
  - Discuss AP MCQ & FRQ Review Packets assigned for the week
- **Schedule for the next 2 days:**
  - **WEDNESDAY: SAT DAY** Periods 2, 4, 6, 8 (Juniors take SAT in AM - others are in class)
  - **THURSDAY: Periods 1, 3, 5, 7**

**LOpps:**

- See LOpps assigned for this week at the top of the week
- **Pre-Calculus Everyday!!**

**WEDNESDAY 4/2 - THURSDAY 4/3:** **SAT Day** 41/40 Days until Game Day

**WEDNESDAY: SAT DAY - Periods 2, 4, 6, 8 (Juniors take SAT in AM - others are in class)**

**THURSDAY: Periods 1, 3, 5, 7**

**AP Exam Preparation**

**Objective:** Master Course Curriculum

**Agenda:**

- **Classwork:**
  - Discuss **Mock Exam #1 Non-Calculator MC (Section I, Part A: Non-Calculator Multiple Choice)**
    - **NON-SAT Students - Dox's class**
    - **ALL Students - Andrade's classes**
  - Discuss AP MCQ & FRQ Review Packets assigned for the week

**LOpps:**

- See LOpps assigned for this week at the top of the week
- **Pre-Calculus Everyday!!**

**FRIDAY 4/4:** **39 Days until Game Day**

**AP Exam Preparation**

**Objective:** Master Course Curriculum

## Agenda:

- **Classwork:**

- Discuss Mock Exam #1 Calculator MC (Section I, Part B: Calculator Multiple Choice)
  - **NON-SAT Students - Dox's class**
  - **ALL Students - Andrade's classes (All SAT students were in all classes for Andrade)**
    - (Andrade did FRQ)
- Discuss Mock Exam #1 Non-Calculator MC (Section I, Part A: Non-Calculator Multiple Choice)
  - **Dox's SAT Students**
- Discuss AP MCQ & FRQ Packet Reviews assigned for the week

## LOpps:

- Work on AP MCQ & FRQ Review Packets
  - MCQ #31 - 70 from UNITS 1-3 AP MCQ Review Packets
  - FRQ 1 Task Models E & F from AP FRQ 1 Review Packet #1
  - FRQ 2 Task Models F, G & H from AP FRQ 2 Review Packet #1
  - FRQ 3 Task Models F, G & H from AP FRQ 3 Review Packet #1
  - FRQ 4 Task Models E & F from AP FRQ 4 Review Packet #1
- Review all Tests from the whole year!!
- **Pre-Calculus Everyday!!**

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## AP Pre-Calculus

### Lesson Plans 3/24 – 3/28 - WEEK #11

### SPRING TRAINING - WEEK 2!!

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

- **MOCK EXAM #1 THIS WEEK IN CLASS!!! You should be working on the material that you are getting ready to see.**
  - **MONDAY:**
    - **Section II, Part A: Calculator Free Response (30 min)**
    - **Practice on FRQ 1 & 2 Packets, Task Model A & B, as well as Free Response problems from Unit 1 and Unit 2 Tests, to prepare for this portion of the Mock Exam**
  - **TUESDAY:**
    - **Section II, Part B: Non-Calculator Free Response (30 min)**
    - **Practice on FRQ 3 & 4 FRQ Packets, Task Model A & B, as well as Free Response problems from Unit 2 and Unit 3 Tests, to prepare for this portion of the Mock Exam**
  - **WEDNESDAY / THURSDAY:**
    - **Section I, Part A: Non-Calculator Multiple Choice (80 min)**
    - **Practice on Non-Calculator Multiple Choice problems from MCQ Units 1 - 3 Packets, as well as Multiple Choice Problems from all Tests, to prepare for this portion of the Mock Exam**
  - **FRIDAY:**
    - **Section I, Part B: Calculator Multiple Choice (40 min)**

- **Practice on Calculator Multiple Choice problems (look for decimal answers) from MCQ Units 1 - 3 Packets, as well as Multiple Choice Problems from all Tests, to prepare for this portion of the Mock Exam**

**LOpps assigned for this week:**

- **Work on AP MCQ & FRQ Review Packets for Mock Exam #1**
  - **MCQ #1 - 30 from UNITS 1-3 AP MCQ Review Packets**
  - **FRQ 1 Task Models A & B from AP FRQ 1 Review Packet #1**
  - **FRQ 2 Task Models A & B from AP FRQ 2 Review Packet #1**
  - **FRQ 3 Task Models A & B from AP FRQ 3 Review Packet #1**
  - **FRQ 4 Task Models A & B from AP FRQ 4 Review Packet #1**
- **Review all Tests from the whole year!!**

**MONDAY 3/24: 50 Days until Game Day**

**AP Pre-Calculus MOCK EXAM #1 - In-Class**

- **Section II, Part A: Calculator Free Response (30 min)**

**Agenda:**

- **Classwork:**
  - *Take Mock Exam #1: Section II, Part A*

**LOpps:**

- **MOCK EXAM THIS WEEK IN CLASS!!! STUDY MCQ & FRQ REVIEW PACKETS, WORKSHEETS & OLD TESTS FOR:**
  - **TUESDAY:**
    - **Section II, Part B: Non-Calculator Free Response (30 min)**
  - **WEDNESDAY / THURSDAY:**
    - **Section I, Part A: Non-Calculator Multiple Choice (80 min)**
  - **FRIDAY:**
    - **Section I, Part B: Calculator Multiple Choice (40 min)**
- **Pre-Calculus Everyday!!**

**TUESDAY 3/25: 49 Days until Game Day**

**AP Pre-Calculus MOCK EXAM #1 - In-Class**

- **Section II, Part B: Non-Calculator Free Response (30 min)**

**Agenda:**

- **Classwork:**
  - *Take Mock Exam #1: Section II, Part B*

**LOpps:**

- **MOCK EXAM THIS WEEK IN CLASS!!! STUDY MCQ & FRQ REVIEW PACKETS, WORKSHEETS & OLD TESTS FOR:**
  - **WEDNESDAY / THURSDAY:**
    - **Section I, Part A: Non-Calculator Multiple Choice (80 min)**
  - **FRIDAY:**
    - **Section I, Part B: Calculator Multiple Choice (40 min)**

- **Pre-Calculus Everyday!!**

**WEDNESDAY 3/26 - THURSDAY 3/27:** *48/47 Days until Game Day*

**AP Pre-Calculus MOCK EXAM #1 - In-Class**

- **Section I, Part A: Non-Calculator Multiple Choice (80 min)**

**Agenda:**

- **Classwork:**
  - Take Mock Exam #1: Section I, Part A

**LOpps:**

- **MOCK EXAM THIS WEEK IN CLASS!!! STUDY MCQ & FRQ REVIEW PACKETS, WORKSHEETS & OLD TESTS FOR:**

- **FRIDAY:**

- **Section I, Part B: Calculator Multiple Choice (40 min)**

- **Pre-Calculus Everyday!!**

**FRIDAY 3/28:** *46 Days until Game Day*

**AP Pre-Calculus MOCK EXAM #1 - In-Class**

- **Section I, Part B: Calculator Multiple Choice (40 min)**

**Agenda:**

- **Classwork:**
  - Take Mock Exam #1: Section I, Part B

**LOpps:**

- **Work on AP MCQ & FRQ Review Packets**
  - MCQ #31 - 70 from UNITS 1-3 AP MCQ Review Packets
  - FRQ 1 Task Models C & D from AP FRQ 1 Review Packet #1
  - FRQ 2 Task Models C, D & E from AP FRQ 2 Review Packet #1
  - FRQ 3 Task Models C, D & E from AP FRQ 3 Review Packet #1
  - FRQ 4 Task Models C & D from AP FRQ 4 Review Packet #1
- **Review all Tests from the whole year!!**
- **Pre-Calculus Everyday!!**

## **AP Pre-Calculus**

### **Lesson Plans 3/17 – 3/21 - WEEK #10**

### **SPRING TRAINING - WEEK 1!!**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**TEST #4 (Unit 3.11 - 3.15) on Wednesday/Thursday, March 19/20!!**

**This test will have Old Material from Test #3 on it!!**

**NO Take-Home for Test #4!!**

**MONDAY 3/17:** *57 Days until Game Day*

## **Units 3.11 - 3.15: More Rates of Change and Polars**

**Objective:** Master Identity and Polar Concepts

### **Agenda:**

- **Return & Discuss Test #3**
  - This material (Unit 3.7 – 3.10) will be in the “OLD MATERIAL” Section of Test #4 (25 pts)
  - The “NEW MATERIAL” Section (Unit 3.11 – 3.15) will be worth 75 pts
  - You will have a teacher-appointed partner for Test #4 to help offset the fact that there is no Take-Home for it
    - Since you don’t know who it will be, you need to be responsible for your own preparation for the test so you don’t bring your partner down!!
    - Similar ability-levels will be paired together, so please don’t hope to get an “A-level” partner if you are a “C-level” student...
    - While the test is possible to complete in 60 min, you will have the full 90-min class period to complete the test with your partner, but not more than that, so be sure you and your partner use the time efficiently.
- **Discuss 3.14 - 3.15 LOpps:**
  - Unit 3.14 Worksheet A #2 - 8 even
  - Unit 3.15 Notes Examples #6 - 8
- **Unit 3.11-3.15 Classwork** (whatever we don’t get done in class is part of LOpps)
  - Two Truths and a Lie
  - Which Does Not Belong?
- MathWorks

### **LOpps:**

- **Unit 3.11 - 3.15 LOpps:**
  - Two Truths and a Lie
  - Which Does Not Belong?
- Go through Test #3 to correct your errors
- Review all Test #4 Material (especially Notes and LOpps) to prepare for the Partner Test

**TUESDAY 3/18: 56 Days until Game Day**

## **AP Exam Preparation**

**Objective:** Master Course Curriculum

### **Agenda:**

- **Classwork:**
  - Turn in:
    - Two Truths and a Lie
    - Which Does Not Belong?
  - Prepare for Test #4
  - REWORK LOpps problems, OR ones that have not been assigned
  - Your partner will be assigned today
- MathWorks - DOL

### **LOpps:**

- **STUDY FOR TEST #4 (3.11 - 3.15) and Old Material (3.7 - 3.10)**
  - NO Take-Home will be given!!

WEDNESDAY 3/19 - THURSDAY 3/20: *55/54 Days until Game Day*

## **TEST #4 (Units 3.11 - 3.15)**

### **NO Take-Home!!**

*Objective: Show what you know!*

*Agenda:*

- *Take the Test!*

*LOpps:*

- **Get AP Pre-Calculus MCQ Unit 1-3 Review Packets**
- **START preparing for Mock Exam #1**
  - *Start working on #1 - 20 on Units 1 - 3 MCQ*

FRIDAY 3/21: *53 Days until Game Day*

*AP Review*

*Objective: Prepare for the AP Exam*

*Agenda:*

- **Get AP Pre-Calculus FRQ #1-4 A-H Review Packets #1**
- *Start working on FRQ 1-4 from FRQ Packet Task Model A & Task Model B*

*LOpps: Due Monday, March 24*

- *Work on AP MCQ & FRQ Review Packets for Mock Exam #1*
  - *MCQ #1 - 30 from UNITS 1-3 AP MCQ Review Packets*
  - *FRQ 1 Task Models A & B from AP FRQ 1 Review Packet #1*
  - *FRQ 2 Task Models A & B from AP FRQ 2 Review Packet #1*
  - *FRQ 3 Task Models A & B from AP FRQ 3 Review Packet #1*
  - *FRQ 4 Task Models A & B from AP FRQ 4 Review Packet #1*
- *Review all Tests from the whole year!!*
- **MOCK EXAM #1 NEXT WEEK IN CLASS!!!**
  - **MONDAY:**
    - **Section II, Part A: Calculator Free Response (30 min)**
    - *Practice on FRQ 1 & 2 Packets, Task Model A & B, as well as Free Response problems from Unit 1 and Unit 2 Tests, to prepare for this portion of the Mock Exam*
  - **TUESDAY:**
    - **Section II, Part B: Non-Calculator Free Response (30 min)**
    - *Practice on FRQ 3 & 4 FRQ Packets, Task Model A & B, as well as Free Response problems from Unit 2 and Unit 3 Tests, to prepare for this portion of the Mock Exam*
  - **WEDNESDAY / THURSDAY:**
    - **Section I, Part A: Non-Calculator Multiple Choice (80 min)**
    - *Practice on Non-Calculator Multiple Choice problems from MCQ Units 1 - 3 Packets, as well as Multiple Choice Problems from all Tests, to prepare for this portion of the Mock Exam*
  - **FRIDAY:**
    - **Section I, Part B: Calculator Multiple Choice (40 min)**



- **Practice on Calculator Multiple Choice problems (look for decimal answers) from MCQ Units 1 - 3 Packets, as well as Multiple Choice Problems from all Tests, to prepare for this portion of the Mock Exam**

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## AP Pre-Calculus

### Lesson Plans 3/3 – 3/7 - WEEK #9

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**TEST #4 (Unit 3.11 - 3.15) on Wednesday/Thursday, March 19/20!!**

**This test will have Old Material from Test #3 on it!!**

**NO Take-Home for Test #4!!**

**MONDAY 3/3: 74 Days until Game Day**

**Still 2 sections left!!**

**Units 3.13.2: Trigonometric and Polar Coordinates**

**Objective:** Determine the location of a point in the plane using both rectangular and polar coordinates. Construct graphs of polar functions.

**Agenda:**

- **Discuss Unit 3.13.1 LOpps:** - only as needed
- **Unit 3.13 Notes Examples 6 - 7**
- **Units 3.13.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.13 Worksheet #17 - 20
- **MathWorks - DOL**

**LOpps:**

- **Unit 3.13.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.13 Worksheet #17 - 20
- **Unit 3.12 BIG IDENTITIES QUIZ on Wednesday/Thursday**
- **Unit 3.14 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

**TUESDAY 3/4: 73 Days until Game Day**

**1 section left!!**

**Units 3.14.1: Polar Functions and Graphs**

**Objective:** Determine the location of a point in the plane using both rectangular and polar coordinates. Construct graphs of polar functions.

**Agenda:**

- **Discuss Unit 3.13.2 LOpps:** 3.13 Worksheet #17 - 20 - only as needed
- **Intro To 3.14 Polar Graphs (Polar Packet, p. 5 - 6)**
  - Use calculator for investigating graphs #1 - 2 on p. 5 and graphs #3 - 4 on p. 6
  - Look at how changes in the equations change the type of curve, p. 7
- **Unit 3.14.1 Notes - Example #1 (using all features of the calculator)**
- **Units 3.14.1 Classwork** (whatever we don't get done in class is part of LOpps)

- Complete the graphing notes graphs for #1 - 4 (sketch the graphs from the calculator)
- Complete 3.14 Notes #1, 2, 3

- MathWorks - DOL

#### **LOpps:**

- **Unit 3.12 BIG IDENTITIES QUIZ on Wednesday/Thursday**
- **Unit 3.14.1 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - Complete the graphing notes graphs for #1 - 4 (sketch the graphs from the calculator)
  - Complete 3.14 Notes #1, 2, 3

**WEDNESDAY 3/5 - THURSDAY 3/6: 72/71 Days until Game Day**

**Still 1 section left!!**

#### **Units 3.14.2: Polar Functions and Graphs**

**Objective:** Determine the location of a point in the plane using both rectangular and polar coordinates. Construct graphs of polar functions.

#### **Agenda:**

- **Unit 3.12 BIG IDENTITIES QUIZ**
- **Discuss Unit 3.14.1 LOpps: 3.14.1 Notes #2, 3 - only as needed**
- **Unit 3.14.2 Notes - Example #4 - 6**
- **Units 3.14.2 Classwork (whatever we don't get done in class is part of LOpps)**
  - Unit 3.14 Worksheet A #1 - 7 odd
- MathWorks - DOL

#### **LOpps:**

- **Unit 3.12 BIG IDENTITIES QUIZ on Wednesday/Thursday**
- **Unit 3.14.2 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - Unit 3.14 Worksheet A #1 - 7 odd
- **Unit 3.15 Prep: Watch Daily Videos for next class, transcribe notes onto Guided Notes handed out in class.**

**FRIDAY 3/7: 70 Days until Game Day**

**The LAST section!!**

#### **Units 3.15: Rates of Change in Polar Functions**

**Objective:** Describe characteristics of the graph of a polar function.

#### **Agenda:**

- **Discuss Unit 3.14 LOpps: 3.14 Worksheet A #1 - 7 odd - only as needed**
- **Discuss Unit 3.15 DVNs**
- **Unit 3.15 Notes (Examples #1 - 5)**
- **Units 3.15 Classwork (whatever we don't get done in class is part of LOpps)**
  - Unit 3.14 Worksheet A #2 - 8 even
  - Unit 3.15 Notes Examples #1 - 5
- MathWorks - DOL

#### **LOpps:**

- **Unit 3.15 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - Unit 3.14 Worksheet A #2 - 8 even
  - Complete Unit 3.15 Notes Examples #6 - 8

**TEST #4 (Unit 3.11 - 3.15) on Wednesday/Thursday, March 19/20!!**

**This test will have Old Material from Test #3 on it!!**

**NO Take-Home for Test #4!!**

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## AP Pre-Calculus

### Lesson Plans 2/24 – 2/28 - WEEK #8

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**MONDAY 2/24:** *82 Days until Game Day*

**Still 4 sections left!!**

**Units 3.11.2: The Secant, Cosecant, and Cotangent Functions**

**Objective:** Identify key characteristics of functions that involve quotients of the sine and cosine functions.

**Agenda:**

- **Discuss Unit 3.11.1 LOpps** - 3.11 Worksheet A # 1 - 9 odd - only as needed
- **Unit 3.11 Notes Ex. #7 - Desmos/Calculator Lesson**
- **Units 3.11.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.11 Worksheet A # 11
  - 3.11 Worksheet B #1 - 11 all
- MathWorks - DOL

**LOpps:**

- **Unit 3.11.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.11 Worksheet #2 - 12 even
- **Unit 3.12 Prep: Watch Daily Videos 1 & 2** for next class, **transcribe notes** onto Guided Notes handed out in class.

**TUESDAY 2/25:** *81 Days until Game Day*

**3 sections left!!**

**Units 3.12.1: Equivalent Representations of Trigonometric Functions (Identities)**

**Objective:** Rewrite trigonometric expressions in equivalent forms with the Pythagorean identity. Solve equations using equivalent analytic representations of trigonometric functions.

**Agenda:**

- **Discuss Unit 3.11.2 LOpps:**
  - 3.11 Worksheet A # 11
  - 3.11 Worksheet B #1 - 11 all
- **Unit 3.12 Notes Ex. #1 - 3**
- **Unit 3.12.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.12 Worksheet A #1 - 6 all, 13, 15, 17
- MathWorks - DOL

**LOpps:**

- **Unit 3.12.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)

- 3.12 Worksheet A #1 - 6 all, 13, 15, 17

- **Unit 3.12 Prep: Watch Daily Video 3** for next class, **transcribe notes** onto Guided Notes handed out in class.

**WEDNESDAY 2/26 - THURSDAY 2/27: 80/79 Days until Game Day**

**Still 3 sections left!!**

### **Units 3.12.2: Equivalent Representations of Trigonometric Functions (Identities)**

**Objective:** Rewrite trigonometric expressions in equivalent forms with the Pythagorean identity. Solve equations using equivalent analytic representations of trigonometric functions.

#### **Agenda:**

- **Discuss Unit 3.12.1 LOpps:** 3.12 Worksheet A #1 - 6 all, 13, 15, 17 - only as needed
- **Unit 3.12.2 Notes Ex. #4 – 8**
- **Look at other set of 3.12 notes in the Notes Packet – almost identical to the one we used**
- **Units 3.12.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.12 Worksheet A #7 - 12 all, 18
  - 3.12 Worksheet B #1 - 8 all
- **MathWorks - DOL**

#### **LOpps:**

- **Unit 3.12.2 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 3.12 Worksheet A #7 - 17 odd
  - 3.12 Worksheet B #1 - 8 all
- **To Prepare for Friday's class, using the notes in the Polar Packet, watch this Dox video:**
  - Sec. 10.4 INTRO 1 Video link: [10.4 INTRO 1: Intro to Polar Coordinates and Calculus](#) (14:48)
    - Note: 10.4 is the section in BC Calculus where this review is needed, but it is first time for y'all

**FRIDAY 2/28: 78 Days until Game Day**

**2 sections left!!**

### **Units 3.13.1: Trigonometric and Polar Coordinates**

**Objective:** Determine the location of a point in the plane using both rectangular and polar coordinates.

#### **Agenda:**

- **Discuss Unit 3.12.2 LOpps:** - only as needed
  - 3.12 Worksheet A #7 - 17 odd
  - 3.12 Worksheet B #1 - 8 all
- **Check Student 10.4 INTRO 1 Notes**
- **Watch Dox Video in class, using the notes in the Polar Packet:**
  - Sec. 10.4 INTRO 2 Video link: [10.4 INTRO 2: Introduction to Polar Graphs](#) (14:59)
- **Complete Unit 3.13 Notes Examples 1 - 5**
- **Units 3.13.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.13 Worksheet A #1 - 15 odd
- **MathWorks - DOL**

#### **LOpps:**

- **Unit 3.13.1 LOpps: (Whatever we didn't get done in class is part of LOpps)**

- 3.13 Worksheet A #1 - 15 odd

- **Identity Quiz on Tuesday!!**
- **Unit 3.12 BIG QUIZ on Wednesday/Thursday (like the Worksheet problems)**
- **NOW Watch 3.13 Daily Videos for next class, transcribe notes onto Guided Notes handed out in class.**

## AP Pre-Calculus

### Lesson Plans 2/17 – 2/21 - WEEK #7

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**TEST #3 (Unit 3.7 - 3.10) on Wednesday/Thursday, Feb 19/20!!**

**MONDAY 2/17:** *85 Days until Game Day*

**No School**

**Holiday**

**LOpps:**

- **Unit 3.10.3 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.10 Worksheet B #1 - 9 odd
  - 3.10 Worksheet D #1 - 9 odd
  - **Work on T#3 Take-Home**

**TUESDAY 2/18:** *84 Days until Game Day*

**Still 5 sections left!!**

**More Unit 3.10: Trigonometric Equations**

**Objective:** Solve equations and inequalities involving trigonometric functions.

**Agenda:**

- **Discuss Unit 3.10.3 LOpps:** 3.10 Worksheet B #1 - 9 odd; 3.10 Worksheet D #1 - 9 odd - only as needed
- **Work on T#3 Take-Home**
- MathWorks - DOL

**LOpps:**

- **Unit 3.10.4 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.10 Worksheet D #1 - 9 odd - should have been done for class!!
  - **Work on T#3 Take-Home**
- **Due Friday, February 21**
  - **Unit 3.11 Prep: Watch Daily Videos for next class, transcribe notes onto Guided Notes handed out in class.**

**WEDNESDAY 2/19 - THURSDAY 2/20:** *83/82 Days until Game Day*

**WEDNESDAY: TELPAS Testing - Periods 7, 5, 3, 1**

**THURSDAY: TELPAS Testing - Periods 8, 6, 4, 2**

**TEST #3 (Units 3.7-3.10)**

**Take-Home DUE at the beginning of class!!**

**Objective:** Show what you know!

### Agenda:

- Take the Test!

### LOpps: Due Friday, February 21

- **Unit 3.11 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

### FRIDAY 2/21: 81 Days until Game Day

### 4 sections left!!

#### Units 3.11.1: The Secant, Cosecant, and Cotangent Functions

**Objective:** Identify key characteristics of functions that involve quotients of the sine and cosine functions.

### Agenda:

- Discuss Unit 3.11 Daily Videos 1 & 2 - only as needed
- Unit 3.11 Notes Ex. #1 - 6
- Units 3.11 Classwork (whatever we don't get done in class is part of LOpps)
  - 3.11 Worksheet A #1 - 9 odd
- MathWorks - DOL

### LOpps:

- Unit 3.11.1 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - 3.11 Worksheet #1 - 11 odd

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## AP Pre-Calculus

### Lesson Plans 2/10 – 2/14 - WEEK #6

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

### MONDAY 2/10: 92 Days until Game Day

### 5 sections left!!

#### Units 3.10.1: Trigonometric Equations (no calculators)

**Objective:** Solve equations and inequalities involving trigonometric functions.

### Agenda:

- Discuss Unit 3.9 LOpps: 3.9 Worksheet A #1 - 11 odd
- Unit 3.10 Part I Notes: Examples #1 - 5
- Units 3.10.1 Classwork (whatever we don't get done in class is part of LOpps)
  - 3.10 Worksheet A #1 - 17 odd
- MathWorks - DOL

### LOpps:

- Unit 3.10.1 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - 3.10 Worksheet A #1 - 17 odd

### TUESDAY 2/11: 91 Days until Game Day

### Still 5 sections left!!

#### Units 3.10.2: Trigonometric Equations (no calculators)

**Objective:** Solve equations and inequalities involving trigonometric functions.

### **Agenda:**

- **Discuss Unit 3.10.1 LOpps:** 3.10 Worksheet A #1 - 17 odd - only as needed
- **Unit 3.10 Part I Notes Examples #6 - 8**
- **Units 3.10.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.10 Worksheet C #1-13 odd
- MathWorks - DOL

### **LOpps:**

- **Unit 3.10.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.10 Worksheet C #1-13 odd

**WEDNESDAY 2/12 - THURSDAY 2/13:** 90/89 Days until Game Day

**Still 5 sections left!!**

### **Units 3.10.3: Trigonometric Equations (with calculators)**

**Objective:** Solve equations and inequalities involving trigonometric functions.

### **Agenda:**

- **Discuss Unit 3.10.2 LOpps:** 3.10 Worksheet C #1-13 odd - only as needed
- **Unit 3.10 Part II Notes (Ex. 1 - 6)**
- **Units 3.10.3 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.10 Worksheet B #1 - 9 odd
  - 3.10 Worksheet D #1 - 9 odd
- **Get T#3 Take-Home**
- MathWorks - DOL

### **LOpps:**

- **Unit 3.10.3 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.10 Worksheet B #1 - 9 odd
  - 3.10 Worksheet D #1 - 9 odd
  - **Work on T#3 Take-Home**

**FRIDAY 2/14:** 88 Days until Game Day

**No School**

**Teacher In-Service Day**

### **LOpps:**

- **Unit 3.10.3 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.10 Worksheet B #1 - 9 odd
  - 3.10 Worksheet D #1 - 9 odd
  - **Work on T#3 Take-Home**

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## **AP Pre-Calculus**

### **Lesson Plans 2/3 – 2/7 - WEEK #5**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.



**MONDAY 2/3: 99 Days until Game Day**

**Units 3.8: The Tangent Function**

**Objective:** Construct representations of the tangent function using the unit circle. Describe key characteristics of the tangent function. Describe additive and multiplicative transformations involving the tangent function.

**Agenda:**

- **Discuss Unit 3.7 LOpps:** Unit 3.7 Worksheet A # 1 - 23 odd - only as needed
- **Discuss Unit 3.8 Daily Videos 1 & 2** - only as needed
- **Unit 3.8 Notes**
- **Units 3.8.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.8 Worksheet A #1-19 odd, 20-28 all
- MathWorks - DOL

**LOpps: Due Wednesday/Thursday, Feb 5/6**

- **Unit 3.8.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.8 Worksheet A #1-19 odd, 20-28 all
- **Unit 3.9 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

**TUESDAY 2/4: 98 Days until Game Day**

**TEST #2 (Units 3.1-3.6)**

**Take-Home DUE at the beginning of class!!**

**Objective:** Show what you know!

**Agenda:**

- Take the Test!

**LOpps: Due Wednesday/Thursday, Feb 5/6**

- **Unit 3.8.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.8 Worksheet A #1-19 odd, 20-28 all
- **Unit 3.9 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

**WEDNESDAY 2/5 - THURSDAY 2/6: 97/96 Days until Game Day**

**Units 3.9.1: Inverse Trigonometric Functions**

**Objective:** Construct analytical and graphical representations of the inverse of the sine, cosine, and tangent functions over a restricted domain.

**Agenda:**

- **Unit Circle Values Quiz #2**
- **Discuss Unit 3.8 LOpps:** 3.8 Worksheet A #1-19 odd, 20-28 all - only as needed
- **Discuss Unit 3.9 Daily Videos 1 & 2** - only as needed
- **Unit 3.9.1 Notes**
- **Units 3.9.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.9 Worksheet A #1 - 11 odd
- MathWorks - DOL

**LOpps:**

- **Unit 3.9.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.9 Worksheet A #1 - 11 odd



**FRIDAY 2/7:** *95 Days until Game Day*

**Units 3.9.2: Inverse Trigonometric Functions**

**Objective:** Construct analytical and graphical representations of the inverse of the sine, cosine, and tangent functions over a restricted domain.

**Agenda:**

- **Discuss Unit 3.9.1 LOpps:** 3.9 Worksheet A #1 - 11 odd - only as needed
- **Unit 3.9.2 Notes**
- **Units 3.9.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.9 Worksheet A #2 - 12 even
- **MathWorks - DOL**

**LOpps:**

- **Unit 3.9.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 3.9 Worksheet A #2 - 12 even
- **Unit 3.10 Prep:** Watch Daily Videos for next class, **transcribe notes** onto Guided Notes handed out in class

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## AP Pre-Calculus

### Lesson Plans 1/27 – 1/31 - WEEK #4

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**TEST #2 (Unit 3.1 - 3.6) on Tuesday, Feb 4!!**

**MONDAY 1/27:** *106 Days until Game Day*

**(FRIDAY: STAAR Interim Testing - Periods 8, 6, 4, 2)**

**MONDAY: STAAR Interim Testing - Periods 7, 5, 3, 1**

**Unit 3.4.2 & 3.5: Sine and Cosine Function Graphs**

**Objective:** Construct representations of the sine and cosine functions using the unit circle.

**Agenda:**

- **Table discussion of LOpps - 5 min**
- **Discuss Unit 3.4.1 LOpps:** Unit 3.4 Worksheet A #1 - 8; Unit 3.1 Worksheet E - *only as needed - 5 min*
- **Unit 3.4.2 Notes - 15 min**
- **Watch Unit 3.5 Daily Videos - complete the notes - 20 min**
- **Discuss & Return Unit Circle Quiz 1 - 5 min**
- **Unit Circle Quiz 2 - 8 min**
- **3.4.2 & 3.5 Classwork** (whatever we don't get done in class is part of LOpps) - 20 min
  - 3.4 - 3.5 Worksheet A #9 - 15 all
  - Unit 3.1 Worksheet F
- **MathWorks - DOL**

**LOpps:**

- **Unit 3.4.2 & 3.5 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 3.4 Worksheet A #9 - 15
  - Unit 3.1 Worksheet F

- **Unit 3.6 Prep: Watch Daily Videos** for next (Tuesday's) class, **transcribe notes** onto Guided Notes handed out in class.

## **TUESDAY 1/28: 105 Days until Game Day**

### **Unit 3.6.1: Sinusoidal Function Transformations**

**Objective:** Identify the amplitude, vertical shift, period, and phase shift of a sinusoidal function.

#### **Agenda:**

- **Unit Circle Quiz 3 - 7 min - moved to Wednesday/Thursday**
- **Discuss Unit 3.4 - 3.5 LOpps:** Unit 3.4 Worksheet A #9 - 15; Unit 3.1 Worksheet F - only as needed - **5 min**
- **Unit 3.6.1 Notes (Ex. 1 - 5) - 10 min**
- **Unit Circle Value Worksheet (no Unit Circle permitted) - 10 min - moved to Wednesday/Thursday**
- **Unit 3.6.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 3.6 Worksheet A #1 - 7 all, 9, 10
- MathWorks - DOL

#### **LOpps:**

- Unit 3.6 Worksheet A #1 - 7 all, 9, 10
- **Unit 3.6 Prep: Re-Watch Daily Videos** for next (Wednesday's-Thursday's) class, **transcribe notes** onto Guided Notes handed out in class.

## **WEDNESDAY 1/29 - THURSDAY 1/30: 104/103 Days until Game Day**

### **Unit 3.6.2: Sinusoidal Function Transformations**

**Objective:** Identify the amplitude, vertical shift, period, and phase shift of a sinusoidal function.

#### **Agenda:**

- **Unit Circle Quiz 4 - 7 min**
- **Discuss Unit 3.5 LOpps:** Unit 3.6 Worksheet A #1 - 7 all, 9, 10 - **only as needed - 10 min**
- **Unit 3.6.2 Notes (Ex. 6 - 8) - 15 min**
- **Unit 3.6.2 Classwork** (whatever we don't get done in class is part of LOpps) - **15 min**
  - Unit 3.6 Worksheet A #8, 11 - 15 all
- **Return & Discuss Test #1 - 10 min**
- MathWorks - DOL

#### **LOpps:**

- **Unit 3.6 LOpps:**
  - Unit 3.6 Worksheet A #8, 11 - 15 all
- **Unit 3.7 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

## **FRIDAY 1/31: 102 Days until Game Day**

### **Unit 3.7: Sinusoidal Functions and Modeling**

**Objective:** Construct sinusoidal function models of periodic phenomena.

#### **Agenda:**

- **Discuss Unit 3.6 LOpps:** Unit 3.6 Worksheet A #8, 11 - 15 all - **only as needed**
- **Discuss Unit 3.7 Daily Videos 1 & 2 - only as needed**
- **Unit 3.7 Notes**
- **Unit 3.7 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 3.7 Worksheet A # 1 - 23 odd

- **Get Take-Home for Test #2!**

- MathWorks - DOL

**LOpps: Due Mon, Feb 3**

- **Start working on Take-Home!**
- **Unit 3.7 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - Unit 3.7 Worksheet A #1 - 23 odd
- **Unit 3.8 Prep: Watch Daily Videos for next class, transcribe notes onto Guided Notes handed out in class.**

**TEST #2 (Unit 3.1 - 3.6) on Tuesday, Feb 4!!**

## AP Pre-Calculus

### Lesson Plans 1/20 – 1/24 - WEEK #3

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**Test #1 (Unit 3.1 – 3.3) is Tuesday, January 21!**

**THE WEEK OF SNOWMAGEDDON**

**Lesson Plans Update**

**Test #1 (Unit 3.1 - 3.3) is Thursday, January 23 IN ALL CLASSES!**

**This is a Period 1 - 8 Day!!!**

**MONDAY 1/20: 113 Days until Game Day**

**MLK Day - NO SCHOOL**

**TUESDAY 1/21: 112 Days until Game Day**

**Stay Home and Play in the snow!**

**TEST #1 (Units 3.1-3.3)**

**Take-Home DUE at the beginning of class!!**

**Objective:** Show what you know!

**Agenda:**

- Take the Test!

**LOpps:**

- Unit 3.4.1 LOpps:
  - Unit 3.4 Worksheet A #1 - 13 odd
  - Unit 3.1 Worksheet E

**WEDNESDAY 1/22 - THURSDAY 1/23: 111/110 Days until Game Day**

**Stay Home and Prepare for Class!**

**WEDNESDAY: STAAR Interim Testing - Periods 7, 5, 3, 1**

**THURSDAY: STAAR Interim Testing - Periods 8, 6, 4, 2**

**Unit 3.4.2: Sine and Cosine Function Graphs**

**Objective:** Construct representations of the sine and cosine functions using the unit circle.

**Agenda:**

- Unit Circle Quiz 2 - 9 min
- Discuss Unit 3.4.1 LOpps: Unit 3.4 Worksheet A #1 - 8; Unit 3.1 Worksheet E - only as needed
- Unit 3.4.2 Notes

- **Unit 3.4.2 Classwork** (whatever we don't get done in class is part of LOpps)

- 3.4 Worksheet A # TBA

- MathWorks - DOL

#### LOpps:

- **Unit 3.4.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)

- Unit 3.4 Worksheet A # TBA

- Unit 3.1 Worksheet F

**THURSDAY 1/23:** 110 Days until Game Day

**Periods 1 - 8** No Interim Testing

**TEST #1 (Units 3.1-3.3)**

**Take-Home DUE at the beginning of class!!**

**Objective:** Show what you know!

#### Agenda:

- Take the Test!
- **Unit 3.4.1 LOpps:**
  - Unit 3.4 Worksheet A #1 - 8 all
  - Unit 3.1 Worksheet E

**FRIDAY-MONDAY 1/24-27:** 109/106 Days until Game Day

**FRIDAY: STAAR Interim Testing - Periods 8, 6, 4, 2**

**(MONDAY: STAAR Interim Testing - Periods 7, 5, 3, 1)**

**Unit 3.4.2 & 3.5: Sine and Cosine Function Graphs**

**Objective:** Construct representations of the sine and cosine functions using the unit circle.

#### Agenda:

- Table discussion of LOpps - 5 min
- Discuss Unit 3.4.1 LOpps: Unit 3.4 Worksheet A #1 - 8; Unit 3.1 Worksheet E - only as needed - 5 min
- Unit 3.4.2 Notes - 15 min
- Watch Unit 3.5 Daily Videos - complete the notes - 20 min
- Discuss & Return Unit Circle Quiz 1 - 5 min
- Unit Circle Quiz 2 - 8 min
- **3.4.2& 3.5 Classwork** (whatever we don't get done in class is part of LOpps) - 20 min
  - 3.4 - 3.5 Worksheet A #9 - 15 all
  - Unit 3.1 Worksheet F
- MathWorks - DOL

#### LOpps:

- **Unit 3.4.2 & 3.5 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 3.4 Worksheet A #9 - 15
  - Unit 3.1 Worksheet F
- **Unit 3.6 Prep:** Watch Daily Videos for next (Tuesday's) class, **transcribe notes** onto Guided Notes handed out in class.

**TEST #2 (Unit 3.1 - 3.6) on Tuesday, Feb 4!!**

# AP Pre-Calculus

## Lesson Plans 1/13 – 1/17 - WEEK #2

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**Test #1 (Unit 3.1 - 3.3) is Tuesday, January 21 Thursday, January 23!**

**MONDAY 1/13:** *120 Days until Game Day*

**Unit 3.2.2: Sine, Cosine, and Tangent**

**Objective:** Determine the sine, cosine, and tangent of an angle using the unit circle.

**Agenda:**

- **Discuss Unit 3.2.1 LOpps** - Unit 3.2 Worksheet A #1 - 15 odd, 10, 12, 14; Unit 3.1 Worksheet C - only as needed
- **Unit 3.2.2 Notes**
- **Unit 3.2.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 3.2 Worksheet B #1 - 35 odd
  - Unit 3.1 Worksheet C
- MathWorks - DOL

**LOpps:**

- **Unit 3.2.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 3.2 Worksheet B #1 - 35 odd
  - Unit 3.1 Worksheet C
  - Be SURE you know the radian measures of the special angles on the circle from the lesson!!!
- **Unit 3.3 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

**TUESDAY 1/14:** *119 Days until Game Day*

**Unit 3.3.1: Sine and Cosine Function Values**

**Objective:** Determine coordinates of points on a circle centered at the origin.

**Agenda:**

- **Discuss Unit 3.2.2 LOpps:** Unit 3.2 Worksheet B #1 - 35 odd, Unit 3.1 Worksheet C - only as needed
- **Unit 3.3.1 Notes:**
  - YOU are going to use your Unit Circle to help you complete the 3.3 NOTES
- **UNIT CIRCLE**
- **Unit 3.3.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit Circle
  - Unit 3.3 Worksheet A
    - YOU are going to use your Unit Circle to help you complete the 3.3 NOTES
- MathWorks - DOL

**LOpps: FOLLOW THE INSTRUCTIONS BELOW!!**

- **COMPLETE THE 3.3 NOTES:**
  - READ the information in the box on the 1st page of the notes!!!
  - Recall: In the Unit Circle, since the radius = 1, the ordered pair  $(x, y) \rightarrow (\cos \theta, \sin \theta)$ 
    - Use your Unit Circle to help you complete the assigned examples from the 3.3 NOTES
      - Example 3, 4, 5, 6, 7

- **Unit 3.3.1 LOpps:**

- Unit 3.3 Worksheet A #1 - 24 all
- Unit Circle - **be sure you know this and can complete one in class in 10 minutes!!**

**WEDNESDAY 1/15 - THURSDAY 1/16: 118/117 Days until Game Day**

**Unit 3.3.2: Sine and Cosine Function Values**

**Objective:** Determine coordinates of points on a circle centered at the origin.

**Agenda:**

- **Discuss Unit 3.3.1 LOpps:** Unit 3.3 Worksheet A # 1 - 24 all - *only as needed*
- **Unit 3.3.2 Notes...** *thoroughly discuss Unit Circle and how to memorize...*
- **Unit 3.3.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit Circle
  - Unit 3.3 Worksheet B #1-20 all
  - Unit 3.1 Worksheet D
- **Get Test #1 Take-Home**
- MathWorks - DOL

**LOpps:**

- **Unit 3.3.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 3.3 Worksheet B #1-20 all - (Check for additional problems)
  - Unit 3.1 Worksheet D
- **Unit 3.4 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

**FRIDAY 1/17: 116 Days until Game Day**

**Unit 3.4.1: Sine and Cosine Function Graphs**

**Objective:** Construct representations of the sine and cosine functions using the unit circle.

**Agenda:**

- **Unit Circle Quiz 1 - 10 min**
- **Discuss Unit 3.3.2 LOpps:** Unit 3.3 Worksheet B #1-20 all; Unit 3.1 Worksheet B, C & D - *only as needed*
- **Discuss Unit 3.4 Daily Videos 1 & 2** - *only as needed*
- **Unit 3.4.1 Notes**
- **Unit 3.4.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 3.4 Worksheet A #1 - 8
  - Unit 3.1 Worksheet E
- MathWorks - DOL (TBA in class)

**LOpps:**

- **Unit 3.4.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 3.4 Worksheet A #1 - 8
  - Unit 3.1 Worksheet E
- **Unit 3.5 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.
- **Study for Test #1**

- **If we are out of school for TUESDAY, the test will be the FIRST day you are back, whatever that day is....**

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# AP Pre-Calculus

## Lesson Plans 1/7 – 1/11 - WEEK #1

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**Test #1 (Unit 3.1 - 3.3) is Tuesday, January 21!**

**TUESDAY 1/7:** *126 Days until Game Day*

### Unit 3.1.1: Periodic Phenomena

**Objective:** Construct graphs of periodic relationships based on verbal representations. Describe key characteristics of a periodic function based on a verbal representation.

#### Agenda:

- **Unit 3.1.1 Notes (Ex. #1 - 4)**
- **Unit 3.1.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.1 Worksheet A #1 - 6
- MathWorks - DOL

#### LOpps:

- **Unit 3.1 Prep: Re-Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.
- **Unit 3.1.1 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 3.1 Worksheet A #1 - 6

**WEDNESDAY 1/8 - THURSDAY 1/9:** *125/124 Days until Game Day*

### Unit 3.1.2: Periodic Phenomena

**Objective:** Construct graphs of periodic relationships based on verbal representations. Describe key characteristics of a periodic function based on a verbal representation.

#### Agenda:

- **Discuss Unit 3.1.1 LOpps:** Worksheet A #1 - 6 - *as needed*
- **Unit 3.1.2 Notes (Ex. #5 - 6)**
- **Unit 3.1.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 3.1 Worksheet A #7 - 11
  - 3.1 Worksheet B #1
- **Discuss Unit 3.1 Daily Videos 1 & 2 - as needed**
- MathWorks - DOL

#### LOpps:

- **Unit 3.1.2 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 3.1 Worksheet A #7 - 11
  - 3.1 Worksheet B #1
- **Unit 3.2 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

**FRIDAY 1/10:** *123 Days until Game Day*

### Unit 3.2.1: Sine, Cosine, and Tangent



**Objective:** Determine the sine, cosine, and tangent of an angle using the unit circle.

**Agenda:**

- **Discuss Unit 3.1.2 LOpps:** Worksheet A #7 - 11, Worksheet B #1 - *as needed*
- **Discuss Unit 3.2 Daily Videos 1 & 2** - *as needed*
- **Unit 3.2.1 Notes**
- **Unit 3.2.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 3.2 Worksheet A #1 - 15 odd, 10, 12, 14
- MathWorks - DOL

**LOpps:**

- **Unit 3.2.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 3.2 Worksheet A #1 - 15 odd, 10, 12, 14
  - Unit 3.1 Worksheet C

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(TEMPLATE)

AP Pre-Calculus

**Lesson Plans ?/? – ?/? - WEEK #**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**MONDAY ?/?:**

Unit ??: Title

Objective: ??

**Agenda:**

- **Discuss Unit ?? LOpps:** - *only as needed*
- **DOL over Lesson Videos**
- **Discuss Unit ?? Daily Videos 1 & 2** - *only as needed*
- **Unit ?? Notes**
- **Unit ?? Classwork** (whatever we don't get done in class is part of LOpps)
  -
- MathWorks - DOL (TBA in class)

**LOpps:**

- **Unit ?? LOpps:** (Whatever we didn't get done in class is part of LOpps)
  -
- **Unit ?? Prep:** *Watch Daily Videos* for next class, *transcribe notes* onto Guided Notes

**TUESDAY ?/?:**

Unit ??: Title

Objective: ??

**Agenda:**

- **Discuss Unit ?? LOpps:** - *only as needed*
- **DOL over Lesson Videos**



- Discuss Unit ?? Daily Videos 1 & 2 - *only as needed*
- Unit ?? Notes
- Unit ?? Classwork (*whatever we don't get done in class is part of LOpps*)
  -
- MathWorks - DOL (TBA in class)

#### LOpps:

- Unit ?? LOpps: (*Whatever we didn't get done in class is part of LOpps*)
  -
- Unit ?? Prep: *Watch Daily Videos* for next class, **transcribe notes** onto Guided Notes

#### WEDNESDAY ?/? - THURSDAY ?/?:

Unit ??: Title

Objective: ??

#### Agenda:

- Discuss Unit ?? LOpps: - *only as needed*
- DOL over Lesson Videos
- Discuss Unit ?? Daily Videos 1 & 2 - *only as needed*
- Unit ?? Notes
- Unit ?? Classwork (*whatever we don't get done in class is part of LOpps*)
  -
- MathWorks - DOL (TBA in class)

#### LOpps:

- Unit ?? LOpps: (*Whatever we didn't get done in class is part of LOpps*)
  -
- Unit ?? Prep: *Watch Daily Videos* for next class, **transcribe notes** onto Guided Notes

#### FRIDAY ?/?:

Unit ??: Title

Objective: ??

#### Agenda:

- Discuss Unit ?? LOpps: - *only as needed*
- DOL over Lesson Videos
- Discuss Unit ?? Daily Videos 1 & 2 - *only as needed*
- Unit ?? Notes
- Unit ?? Classwork (*whatever we don't get done in class is part of LOpps*)
  -
- MathWorks - DOL (TBA in class)

#### LOpps:

- Unit ?? LOpps: (*Whatever we didn't get done in class is part of LOpps*)
  -
- Unit ?? Prep: *Watch Daily Videos* for next class, **transcribe notes** onto Guided Notes

# FALL SEMESTER 2024 - 2025 AP Pre-Calculus

**JOIN REMIND FOR THIS COURSE: Text 81010, then find:**

**Dox's Class Name: APPC-25**

**Dox's Class Code: @doxpc25**

**Andrade's Class Name: AP Precal**

**Andrade's Class Code: @8kh7a6**

**Please use your First and Last name!!**

***(Capitalize Each, because it messes up the alphabetical order if you do not!)***

Supplemental Textbook pdf: Jay Abramson, Pre-Calculus 2e, [pdf](#)

To download Textbook go to <https://openstax.org/subjects/math> , scroll down and click on PreCalculus 2e, download pdf. There is also an openstax app for download if you want it on your phone.

- **Join AP Classroom:**

- **Doxtater** APPC Join Code: **YG2W3D**

- **Andrade** APPC Join Codes:

- 1st DQ7Q36

- 2nd PJJ3R

- 5th ZYAQPY

- 6th MGRPAA

- 7th QDE9MY

- 8th 4LN6ZP

## Current Week's Plans

### AP Pre-Calculus

#### *Lesson Plans 12/16 – 12/20 - WEEK 18*

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**FINAL EXAM WEEK**

**No CalPALS this week!!**

#### **MONDAY 12/16: Regular 8-Period Day**

##### Semester Review

**Objective:** Ensure acceptable performance on Final Exams

##### **Agenda:**

- Prepare for Final Exams
- **How to Create a Study List - you should have done this by now!!**
- ***How to create a Study List - It is important to HAND-WRITE the list instead of just typing it out....because this goes into your long-term memory when you do it!!!***
  - *Go through all notes and list major topics by section (leave space below for filling in)*
    - *(Topic LIST given in class, but create your own from it)*
    - **UNIT 1: Polynomial and Rational Functions**
      - 1.1: Change in Tandem
        - Multiple Representations
        - Graphical Behavior of Function
        - Rate of Change
      - 1.2: Rates of Change
        - Rate of Change at a Point
          - Etc...
          - (Leave room for example 2)
      - 1.3 Average Rate of Change
        - Tables
        - Linear Functions
        - Concavity
      - 1.4: Polynomial Functions and Rates of Change
        - Polynomial Function Definition
          - Leading term
          - Degree

- *Leading coefficient*
  - *Extrema*
    - *Relative*
    - *Absolute*
    - *Points of Inflection*
- *ETC.....*

## ■ **UNIT 2: Exponential and Logarithmic Functions**

- *Do the same thing for Unit 2*
- *After making your list from all your notes, THEN add types of problems from Notes*
  - *THEN add types of problems from Worksheets*
- *Fill in topics that are covered in each set of notes*
  - *Add what YOU need for your own knowledge*
  - *Review (and re-work) the examples from the notes*
  - *Review your work on Worksheets*
- *NOW start going through your old tests, review your work there and re-work all problems*
- ***Final Exam Review - you should review together and rework old tests.***

How to create your study plan for the Final Exam will be discussed after the break!! To get ready for it:

- Gather together ALL of your tests and bring them to class on Monday.
- From what you see on your tests, make a list of the concepts you need to know (by chapter)
- Go to your Lecture Manual and make a list (by chapter) of the things you need to know.
- You should have started your Final Exam Review list BY NOW!!!!!!!!!!

**LOpps:**

- Prepare for Final Exams

## TUESDAY 12/17: 1st & 5th Period Finals

2nd 7:45 - 8:35

4th 8:40 - 9:25

1ST 9:30 - 11:00 FINAL EXAM

Lunch 11:05 - 12:05

6th 12:10 - 12:55

5TH 1:00 - 2:30 FINAL EXAM

7th 2:35 - 3:25

### Semester Review

**Objective:** Ensure acceptable performance on Final Exams

**Agenda:**

- Prepare for Final Exams

**LOpps:**

- Prepare for Final Exams

## WEDNESDAY 12/18: 2nd & 6th Period Finals

3rd 7:45 - 8:35

4th 8:40 - 9:25

**2ND 9:30 - 11:00 FINAL EXAM**

Lunch 11:05 - 12:05

5th 12:10 - 12:55

**6TH 1:00 - 2:30 FINAL EXAM**

8th 2:35 - 3:25

### Semester Review

**Objective:** Ensure acceptable performance on Final Exams

#### Agenda:

- **Unit 3.1 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.
- Prepare for Final Exams

**LOpps: FOR TUESDAY JANUARY 7:**

- **Unit 3.1 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

### **THURSDAY 12/19: 3rd & 7th Period Finals**

1st 7:45 - 8:35

2nd 8:40 - 9:25

**3RD 9:30 - 11:00 FINAL EXAM**

Lunch 11:05 - 12:05

5th 12:10 - 12:55

**7TH 1:00 - 2:30 FINAL EXAM**

8th 2:35 - 3:25

### Semester Review

**Objective:** Ensure acceptable performance on Final Exams

#### Agenda:

- Prepare for Final Exams

**LOpps:**

- Prepare for Final Exams

### **FRIDAY 12/20: 4th & 8th Period Finals**

1st 7:45 - 8:35

3rd 8:40 - 9:25

**4TH 9:30 - 11:00 FINAL EXAM**

Lunch 11:05 - 12:05

6th 12:10 - 12:55

7th 1:00 - 1:45

**8TH 1:50 - 3:25 FINAL EXAM**

### Semester Review

**Objective:** Ensure acceptable performance on Final Exams

#### Agenda:

- Prepare for Final Exams

LOpps: **FOR TUESDAY JANUARY 7:**

- **Unit 3.1 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

## Last Week's Plans

### AP Pre-Calculus

#### *Lesson Plans 12/9 – 12/13 - WEEK 17*

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**TEST #7 (Units 2.13 - 2.15) is Wednesday/Thursday, Dec. 11/12!!**

**No Take-Home portion for Test #7!**

How to create your study plan for the Final Exam will be discussed after the break!! To get ready for it:

- Gather together **ALL** of your tests and bring them to class on Monday.
- From what you see on your tests, make a list of the concepts you need to know (by chapter)
- Go to your Lecture Manual and make a list (by chapter) of the things you need to know.
- You should have started your Final Exam Review list **BY NOW!!!!!!!**

#### MONDAY 12/9:

##### **Unit 2.15.2: Semi-Log Plots**

**Objective:** Determine if an exponential model is appropriate by examining a semi-log plot of a data set. Construct the linearization of exponential data.

##### **Agenda:**

- **Discuss Unit 2.14 LOpps:** (If you didn't have it done for class last Friday)
  - 2.14 Worksheet A #1 - 5
- **Discuss Unit 2.15.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.15 Worksheet A #1 - 6
- **Unit 2.15 Notes - Example 5**
- **Unit 2.15 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.15 Worksheet A #7 - 10
- **Test #7 Review Time**
- **MathWorks - DOL**

##### **LOpps:**

- **Unit 2.15 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.15 Worksheet A #7 - 10

#### TUESDAY 12/10:

##### **Test #7 (2.13-2.15) Review Time**

**Objective:** Prepare for Test #7

**Agenda:**

- **Discuss Unit 2.15.2 LOpps:**
  - 2.15 Worksheet A #7 - 10
- **2.13 – 2.15 Classwork**
- **Test #7 Review Time**
- **MathWorks - DOL**

**Final Exam Review - you should review together and rework old tests.**

**WEDNESDAY 12/11 - THURSDAY 12/12:**

**TEST #7 (Units 2.13-2.15)**

**Objective:** Show what you know!

**Agenda:**

- **Take the Test!**

**LOpps:**

- **STUDY FOR FINAL EXAM**

**FRIDAY 12/13:**

- **How to create a Study List - It is important to HAND-WRITE the list instead of just typing it out....because this goes into your long-term memory when you do it!!!**
  - **Go through all notes and list major topics by section (leave space below for filling in)**
    - **(Topic LIST given in class, but create your own from it)**
    - **UNIT 1: Polynomial and Rational Functions**
      - **1.1: Change in Tandem**
        - **Multiple Representations**
        - **Graphical Behavior of Function**
        - **Rate of Change**
      - **1.2: Rates of Change**
        - **Rate of Change at a Point**
          - **Etc...**
          - **(Leave room for example 2)**
      - **1.3 Average Rate of Change**
        - **Tables**
        - **Linear Functions**
        - **Concavity**
      - **1.4: Polynomial Functions and Rates of Change**
        - **Polynomial Function Definition**
          - **Leading term**
          - **Degree**
          - **Leading coefficient**

- *Extrema*
  - *Relative*
  - *Absolute*
  - *Points of Inflection*
- *ETC.....*

### ■ **UNIT 2: Exponential and Logarithmic Functions**

- *Do the same thing for Unit 2*
- *After making your list from all your notes, THEN add types of problems from Notes*
  - *THEN add types of problems from Worksheets*
- *Fill in topics that are covered in each set of notes*
  - *Add what YOU need for your own knowledge*
  - *Review (and re-work) the examples from the notes*
  - *Review your work on Worksheets*
- *NOW start going through your old tests, review your work there and re-work all problems*
- ***Final Exam Review - you should review together and rework old tests.***

How to create your study plan for the Final Exam will be discussed after the break!! To get ready for it:

- Gather together ALL of your tests and bring them to class on Monday.
- From what you see on your tests, make a list of the concepts you need to know (by chapter)
- Go to your Lecture Manual and make a list (by chapter) of the things you need to know.
- You should have started your Final Exam Review list BY NOW!!!!!!!!!!

## Next Week's Plans

## Future Weeks' Plans

## Previous Weekly Plans - FALL Semester

*(most recent at top)*

### **AP Pre-Calculus**

### ***Lesson Plans 12/2 – 12/6 - WEEK 16***

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

***TEST #7 (Units 2.13 - 2.15) is Wednesday/Thursday, Dec. 11/12!!***



# No Take-Home portion for Test #7!

How to create your study plan for the Final Exam will be discussed after the break!! To get ready for it:

- Gather together ALL of your tests and bring them to class on Monday.
- From what you see on your tests, make a list of the concepts you need to know (by unit)
- Go to your In-Class Notes and make a list (by unit) of the things you need to know.
- BRING ALL OF THE ABOVE TO CLASS ON MONDAY AFTER THE BREAK!!!!

## MONDAY 12/2:

### Section 2.13.3, Part I: Solving Logarithmic Equations

**Objective:** Solve logarithmic equations.

#### Agenda:

- Discuss Unit 2.13.2 LOpps: - only as needed
  - 2.13 Worksheet B #13 - 20 all
  - 2.13 Worksheet A #7 - 14 all
- Unit 2.13.3 Notes, Part I: Examples #2 - 6
- Unit 2.13.3-4 Classwork (whatever we don't get done in class is part of LOpps)
  - 2.13 Worksheet A #15 - 20 all
  - 2.13 Worksheet C #1 - 9 all
- MathWorks - DOL

#### LOpps:

- Unit 2.13.3-4 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - 2.13 Worksheet A #15 - 20 all

## TUESDAY 12/3:

### Section 2.13.4, Part II: Inverse of Exponential and Logarithmic Functions

**Objective:** Construct the inverse function for exponential and logarithmic functions.

#### Agenda:

- Discuss Unit 2.13.3 LOpps: - only as needed
  - 2.13 Worksheet A #15 - 20 all
- Unit 2.13.4 Notes, Part II: Examples #1 - 3
- Unit 2.13.4 Classwork (whatever we don't get done in class is part of LOpps)
  - 2.13 Worksheet C #1 - 9 all
- MathWorks - DOL

#### LOpps:

- Unit 2.13.4 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - 2.13 Worksheet C #1 - 9 all
- Unit 2.14 Prep: Watch Daily Videos for next class, transcribe notes onto Guided Notes

## WEDNESDAY 12/4 - THURSDAY 12/5:

### Section 2.13.5, Part II: Inverse of Exponential and Logarithmic Functions

**Objective:** Construct the inverse function for exponential and logarithmic functions.

#### Unit 2.14: Logarithmic Function Context and Data Modeling

**Objective:** Construct a logarithmic function model.

**Agenda:**

- **Discuss Unit 2.13.4 LOpps:** 2.13 Worksheet C #1 - 9 all - *only as needed*
- **Discuss Unit 2.14 Daily Videos 1 & 2** - *only as needed*
- **Unit 2.13.5 Notes, Part II: Examples #4 - 6 and Extended Log & Exponential Equations Notes**
- **Unit 2.14 Notes**
- **Unit 2.13.5 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.13 Worksheet C #10 - 14 all
  - 2.13 Worksheet D #1 - 7 all
- **Unit 2.14 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.14 Worksheet A #1 - 5
- MathWorks - DOL

**LOpps:**

- **Unit 2.13.5 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.13 Worksheet C #10 - 14 all
  - 2.13 Worksheet D #1 - 7 all
- **Unit 2.14 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.14 Worksheet A #1 - 5
- **Unit 2.15 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes

**FRIDAY 12/6:**

**Unit 2.15.1: Semi-Log Plots**

**Objective:** Determine if an exponential model is appropriate by examining a semi-log plot of a data set. Construct the linearization of exponential data.

**Agenda:**

- **2.13.3 & 2.13.4 Quiz**
- **Discuss Unit 2.13.5 LOpps:**
  - 2.13 Worksheet C #10 - 14 all - *only as needed*
  - 2.13 Worksheet D #1 - 7 all - *only as needed*
- **Discuss Unit 2.14.2 LOpps:** 2.14 Worksheet A #1 - 5 - *only as needed*
- **Discuss Unit 2.15 Daily Videos 1 & 2** - *only as needed*
- **Unit 2.15 Notes Examples 1 - 4** - we didn't finish this lesson....we'll finish on Monday
- **Unit 2.15 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.15 Worksheet A #1 - 6
- MathWorks - DOL

**LOpps:**

- **Unit 2.14 LOpps:** (If you didn't have it done for class last Friday)
  - 2.14 Worksheet A #1 - 5
- **Unit 2.15.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.15 Worksheet A #1 - 6

**TEST #7 (Units 2.13 - 2.15) is Wednesday/Thursday, Dec. 11/12!!**

**No Take-Home portion for Test #7!**

**How to create your study plan for the Final Exam will be discussed after the break!! To get ready for it:**

- Gather together **ALL** of your tests and bring them to class on Monday.
- From what you see on your tests, make a list of the concepts you need to know (by chapter)
- Go to your Lecture Manual and make a list (by chapter) of the things you need to know.
- You should have started your Final Exam Review list BY NOW!!!!!!!

## AP Pre-Calculus

### **Lesson Plans 11/18 – 11/22 - WEEK 15**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

#### **MONDAY 11/18:**

##### **Unit 2.12.2: Logarithmic Function Manipulation**

**Objective:** Rewrite logarithmic expressions in equivalent forms.

##### **Agenda:**

- **Discuss Unit 2.12.1 LOpps:** 2.12.1 Worksheet A #1-9 all - only as needed
- **Unit 2.12.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.12 Worksheet A #9-14
  - 2.9 Worksheet B #1-40 all
- **Return & Discuss Test #5**
- MathWorks - DOL

##### **LOpps:**

- 2.12 Worksheet A #9-14
- 2.9 Worksheet B #1-40 all
- **Study for Test #6**
- **Unit 2.13 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class
  - OOPS!!! I forgot to hand out the DVNs in class....do your best, and I'll give them to you tomorrow....at least WATCH the video...

#### **TUESDAY 11/19:**

##### **Section 2.13.1, Part I (Basic): Solving Exponential Equations (Basic)**

**Objective:** Solve exponential equations.

##### **Agenda:**

- **Discuss 2.12 Worksheet A #9-14**
- **Discuss 2.9 Worksheet B #1-40 all**
- **Introduction: Worksheet B Problems as Intro: #1 - 11 odd**
  - Set each expression = x
  - Solve each equation using exponent rules with equal bases
- **Unit 2.13.1 Notes, Part I: Example #1**
- **Discuss Unit 2.13 Daily Videos 1 & 2** - only as needed - we forgot to hand out the DVNs
- **Unit 2.13.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.13 Worksheet A #1 - 6
  - 2.13 Worksheet B #2 - 12 even
- MathWorks

**LOpps: Due Friday, Nov. 22**

- **Study for Test #6**
- **Unit 2.13.1 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 2.13 Worksheet A #1 - 6
  - 2.13 Worksheet B #2 - 12 even

**WEDNESDAY 11/20 - THURSDAY 11/21:**

**TEST #6 (Units 2.8-2.12)**

**Take-Home DUE at the beginning of class!!**

**Objective:** Show what you know!

**Agenda:**

- Take the Test!

**Get all of your previous tests together!!**

**LOpps: Due Friday, Nov. 22**

- **Unit 2.13.1 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 2.13 Worksheet A #1 - 6
  - 2.13 Worksheet B #2 - 12 even

**FRIDAY 11/22:**

**Section 2.13.2, Part I: Exponential and Logarithmic Equations and Inequalities (Advanced)**

**Objective:** Solve exponential equations.

**Agenda:**

- **Discuss Unit 2.13.1 LOpps: Worksheet A #1 - 6 and Worksheet B #2 - 12 even - only as needed**
- **Unit 2.13.2 Notes, Part I: Example #7**
- **Unit 2.13.2 Classwork (whatever we don't get done in class is part of LOpps)**
  - Worksheet B #13 - 20 all
- MathWorks - DOL

**LOpps:**

- **Unit 2.13.2 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - Worksheet B #13 - 20 all (1st part of lesson - the 2.13.2 day)
  - Worksheet A #7 - 14 all (2nd part of lesson - part of 2.13.3 day)

**How to create your study plan for the Final Exam will be discussed after the break!! To get ready for it:**

- **Gather together ALL of your tests and bring them to class on Monday.**
- **From what you see on your tests, make a list of the concepts you need to know (by chapter)**
- **Go to your Lecture Manual and make a list (by chapter) of the things you need to know.**
- **BRING ALL OF THE ABOVE TO CLASS ON MONDAY AFTER THE BREAK!!!!!!**

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## AP Pre-Calculus

### Lesson Plans 11/11 – 11/15 - WEEK 14

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

# TEST #6 (Units 2.8 - 2.12) is Wednesday/Thursday, Nov. 20/21!!

## MONDAY 11/11:

### Unit 2.9.2: Logarithmic Expressions

**Objective:** Determine the input-output pairs of the inverse of a function. Determine the inverse of a function on an invertible domain. Evaluate logarithmic expressions.

#### Agenda:

- Discuss Unit 2.9.1 LOpps: 2.9 Worksheet A #1-19 odd - only as needed
- Unit 2.9.2 Notes - finish notes, p. 2-3, (Examples 5-6)
- Unit 2.9.2 Classwork (whatever we don't get done in class is part of LOpps)
  - 2.9 Worksheet A #2-20 even, 21, 22
- MathWorks - DOL

#### LOpps:

- Unit 2.9.2 Classwork (whatever we don't get done in class is part of LOpps)
  - 2.9 Worksheet A #2-20 even, 21, 22
- Unit 2.10 Prep: Watch Daily Videos for next class, transcribe notes onto Guided Notes handed out in class.

## TUESDAY 11/12:

### Unit 2.10: Inverses of Exponential Functions

**Objective:** Construct representations of the inverse of an exponential function with an initial value of 1.

#### Agenda:

- Discuss Unit 2.9.2 LOpps: 2.9 Worksheet A #2-20 even, 21, 22 - only as needed
- Discuss Unit 2.10 Daily Videos 1 & 2 - only as needed
- Unit 2.10 Notes
- Unit 2.10 Classwork (whatever we don't get done in class is part of LOpps)
  - 2.10 Worksheet A #1-10
- MathWorks - DOL

#### LOpps:

- Unit 2.10 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - 2.10 Worksheet A #1-10

## WEDNESDAY 11/13 - THURSDAY 11/14:

### Unit 2.11: Inverses of Exponential Functions

**Objective:** Identify key characteristics of logarithmic functions.

#### Agenda:

- Discuss Unit 2.10 LOpps: 2.10 Worksheet A #1-10 - only as needed
- Discuss Unit 2.11 Daily Videos 1 & 2 - only as needed
- Unit 2.11 Notes
- Unit 2.11 Classwork (whatever we don't get done in class is part of LOpps)
  - 2.11 Worksheet A #1-10
- MathWorks - DOL

#### LOpps:

- Unit 2.11.1 LOpps: (Whatever we didn't get done in class is part of LOpps)

- 2.11 Worksheet A #1-16 all

- **Unit 2.12 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

## FRIDAY 11/15:

### Unit 2.12.1: Logarithmic Function Manipulation

**Objective:** Rewrite logarithmic expressions in equivalent forms.

#### Agenda:

- **Discuss Unit 2.11.2 LOpps:** 2.11 Worksheet A #1-16 all - *only as needed*
- **Discuss Unit 2.12 Daily Videos 1 & 2** - only as needed
- **Unit 2.12 Notes**
- **Unit 2.12.1 LOpps:** we got ahead!!
  - 2.12.1 Worksheet A #1-9 all
- **Get Test T #6 Take-Home**
- MathWorks - DOL

#### LOpps:

- **Unit 2.12.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.12.1 Worksheet A #1-9 all

**TEST #6 (Units 2.8-2.12) is Wednesday/Thursday, Nov. 20/21!!**

## AP Pre-Calculus Lesson Plans 11/4 – 11/8

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**TEST #5 (Units 1.13 - 1.14, 2.4 - 2.7) Wednesday/Thursday, November 6/7!!**

## MONDAY 11/4:

### Unit 2.8.2: Inverse Functions

**Objective:** Determine the input-output pairs of the inverse of a function. Determine the inverse of a function on an invertible domain.

#### Agenda:

- **Discuss Unit 2.8.1 LOpps:** 2.8 Worksheet A #1-11 odd - *only as needed*
- **Unit 2.8.1 Notes (Page 4, Examples 6 - 8)**
- **Unit 2.8.2 Notes Part II (Pages 1 - 2, Examples 1 - 4)**
- **Unit 2.8.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.8 Worksheet B Part II #1 - 21 odd
- MathWorks - DOL

#### LOpps:

- **Unit 2.8.2 NOTES:** Complete the 2nd page, **THEN** do the LOpps on it!!
- **Unit 2.8.2 LOpps:**
  - 2.8 Worksheet B Part II #1 - 21 odd

- **Unit 2.9 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

## **TUESDAY 11/5:**

### **Unit 2.9.1: Logarithmic Expressions**

**Objective:** Evaluate logarithmic expressions.

#### **Agenda:**

- **Discuss Unit 2.8.2 LOpps:** 2.8 Worksheet A #1-21 odd - *only as needed*
- **Discuss Unit 2.9 Daily Videos 1 & 2** - only as needed
- **Unit 2.9.1 Notes (Examples 1-4)**
- **Unit 2.9.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.9 Worksheet A #1-19 odd

#### **LOpps:**

- **Unit 2.9.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.9 Worksheet A #1-19 odd

## **WEDNESDAY 11/6 - THURSDAY 11/7:**

**TEST #5 (Units 1.13 - 1.14, 2.4 - 2.7)**

**Take-Home DUE at the beginning of class!!**

**Objective:** Show what you know!

#### **Agenda:**

- *Take the Test!*

**LOpps: Due Monday, Nov. 11**

- **Unit 2.9.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.9 Worksheet A #1-19 odd

## **FRIDAY 11/8:**

**Teacher In-Service**

**No Students**

**LOpps: Due Monday, Nov. 11**

- **Unit 2.9.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.9 Worksheet A #1-19 odd

**TEST #6 (Units 2.8 - 2.12) is Wednesday/Thursday, Nov. 20/21!!**

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## **AP Pre-Calculus**

### **Lesson Plans 10/28 – 11/1 - WEEK 12**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**TEST #5 (Units 1.13-1.14, 2.4-2.7) Wednesday/Thursday, November 6/7!!**

## **MONDAY 10/28:**



### **Unit 2.6.1: Competing Function Model Validation**

**Objective:** Construct linear, quadratic, and exponential models based on a data set. Validate a model constructed from a data set.

#### **Agenda:**

- **Discuss Unit 2.5.2 LOpps:**
  - 2.5 Worksheet A #5-11
- ~~VQ-DOL over DVNs~~
- **Discuss Unit 2.6 Daily Videos 1 & 2 - only as needed**
- **Unit 2.6.1 Notes**
- **Unit 2.6.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.6 Worksheet A #1-6
- MathWorks - DOL

#### **LOpps:**

- **Unit 2.6 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 2.6 Worksheet A #1-6

### **TUESDAY 10/29:**

### **Unit 2.6.2: Competing Function Model Validation**

**Objective:** Construct linear, quadratic, and exponential models based on a data set. Validate a model constructed from a data set.

#### **Agenda:**

- **Discuss Unit 2.6.1 LOpps:** 2.6 Worksheet A #1-6 - only as needed
- **Finish 2.6 Notes (Dox's Class)**
- **Go over the FRQ from Test #4**
- **Unit 2.6.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.6 Worksheet A #7 -11 all
- MathWorks - DOL

#### **LOpps:**

- **Unit 2.6.2 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 2.6 Worksheet A #7-11 all
- **Unit 2.7 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

### **WEDNESDAY 10/30 - THURSDAY 10/31:**

### **Unit 2.7: Composition of Functions**

**Objective:** Evaluate the composition of two or more functions for given values. Construct a representation of the composition of two or more functions. Rewrite a given function as a composition of two or more functions.

#### **Agenda:**

- **Discuss Unit 2.6.2 LOpps:** 2.6 Worksheet A #7-11 - only as needed
- **Discuss Unit 2.7 Daily Videos 1 & 2 - only as needed**
- **Unit 2.7 Notes**
- **Unit 2.7 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.7 Worksheet A #1-15 odd and #16-30 even
- MathWorks - DOL

#### **LOpps:**



- **Unit 2.7 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.7 Worksheet A #1-15 odd and #16-30 even
- **Unit 2.8 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class

## **FRIDAY 11/1:**

### **Unit 2.8.1: Inverse Functions**

**Objective:** Determine the input-output pairs of the inverse of a function. Determine the inverse of a function on an invertible domain.

#### **Agenda:**

- **Discuss Unit 2.7 LOpps:** 2.7 Worksheet A #1-15 odd and #16-30 even - *only as needed*
- **Discuss Unit 2.8 Daily Videos 1 & 2** - *only as needed*
- **Unit 2.8.1 Notes (Pages 1 -3, Examples 1 - 5+)**
- **Unit 2.8.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.8 Worksheet A #1-11 odd
- **Get Test T #5 Take-Home**
- MathWorks - DOL

#### **LOpps:**

- **Unit 2.8.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.8 Worksheet A #1-11 odd

**TEST #5 (Units 1.13-1.14, 2.4-2.7) Wednesday/Thursday, November 6/7!!**

## **AP Pre-Calculus**

### **Lesson Plans 10/21 – 10/25 - WEEK 11**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

## **MONDAY 10/21:**

### **Unit 2.4.2: Transformations of Functions**

**Objective:** Construct a function that is an **additive and/or multiplicative transformation** of another function

#### **Agenda:**

- **Discuss Unit 2.4.1 LOpps:** 2.4 Worksheet A #1 - 15 odd - *only as needed*
- **Unit 2.4.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.4 Worksheet #2-14 even
- MathWorks

#### **LOpps:**

- **Unit 2.4.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.4 Worksheet A #2-14 even
- **Unit 1.13 - 1.14 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class. **VERY IMPORTANT TO WATCH THESE 2 VIDEOS AND COMPLETE THE DVNs!!!**

## **TUESDAY 10/22:**

### **Unit 1.13: Function Model Selection and Assumption Articulation**

### **Unit 1.14: Function Model Construction and Application**

**Objective:** Identify an appropriate function type to construct a function model for a given scenario. Describe assumptions and restrictions related to building a function model. Construct a linear, quadratic, cubic, quartic, polynomial of degree  $n$ , or related piecewise-defined function model. Construct a rational function model based on a context. Apply a function model to answer questions about a data set or contextual scenario.

#### **Agenda:**

- **Table Talk**
- **Discuss Unit 2.4.1 LOpps:** 2.4 Worksheet A #2 - 14 even - only as needed
- **VQ-DOL over 1.13-1.14 Lesson Videos**
- **Unit 1.13-1.14 Notes**
- **Unit 1.13-1.14 Classwork** (whatever we don't get done in class is part of LOpps)
  - 1.13-1.14 Worksheet A #1-5
- **MathWorks**

#### **LOpps:**

- **Unit 1.13-1.14 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Finish the In-Class Notes as best you can
  - 1.13-1.14 Worksheet A #1-5
- **Unit 2.5 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

### **WEDNESDAY 10/23 - THURSDAY 10/24:**

#### **Unit 2.5.1: Exponential Function Context and Data Modeling**

**Objective:** Construct a model for situations involving proportional output values over equal-length input-value intervals. Apply exponential models to answer questions about a data set or contextual scenario.

#### **Agenda:**

- **Discuss 1.13-1.14 LOpps** 1.13-1.14 Worksheet A #1-5 - only as needed
- **Discuss Unit 2.5 Daily Videos 1 & 2** - only as needed
- **Unit 2.5.1 Notes**
- **Unit 2.5 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.5 Worksheet A #1-4
- **MathWorks**

#### **LOpps:**

- **Unit 2.5 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.5 Worksheet A #1-4

### **FRIDAY 10/25:**

#### **Unit 2.5.2: Exponential Function Context and Data Modeling**

**Objective:** Construct a model for situations involving proportional output values over equal-length input-value intervals. Apply exponential models to answer questions about a data set or contextual scenario.

#### **Agenda:**

- **Discuss Unit 2.5.1 LOpps:** 2.5 Worksheet A #1-4 - only as needed
- **Unit 2.5.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.5 Worksheet A #5-11 all
- **Return and Discuss Test #4**
- **MathWorks**

### LOpps:

- **Unit 2.5.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.5 Worksheet A #5-11 all
- **Unit 2.6 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

## AP Pre-Calculus

### Lesson Plans 10/14 – 10/18 - WEEK 10

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

### PSAT/SAT Week - Altered Schedules

**TEST #4 (Units 1.12, 2.1-2.3): Thursday (Per 2, 4, 6, 8) / Friday (Per 1, 3, 5, 7), October 17/18!!**

#### MONDAY 10/14: **Per 1 - 8**

##### **Unit 2.3.2: Exponential Functions**

**Objective:** Identify key characteristics of *exponential functions*.

##### **Agenda:**

- **Discuss Unit 2.3.1 LOpps:**
  - 2.3 Worksheet A #1 - 13 odd, 8, 10
- **Discuss Unit 1.12 MEGA-Worksheet** #27 - 35 all (*this entire packet should be complete after this!*)
- **Unit 2.3.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - Worksheet B #1 - 8 all
- **More 1.12 Problems**
  - Mixed Six Activity
- **MathWorks - DOL** (APC problems)
- **Hand out DVN** for the next section of material
- **Test #4 Take-Home given out in class! (This is DUE at the BEGINNING of class on Test Day!!)**

### LOpps:

- **Unit 2.3.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Worksheet B #1 - 8 all
  - Mixed Six Activity
- **Work on Test #4 Take-Home!**
- **Unit 2.4 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

#### TUESDAY 10/15: **Per 1 - 8**

##### **Unit 2.4.1 Intro: Transformations of Functions**

**Objective:** Construct a function that is an **additive and/or multiplicative transformation** of another function

##### **Agenda:**

- **Discuss Unit 2.3.2 LOpps:** - only as needed
- **DOL over Lesson Videos**
- **Discuss Unit 2.4 Daily Videos 1 & 2** - only as needed
- **Hand out Notes and Worksheets** for the next section of material
- **Unit 2.4 Notes**

- **Unit 2.4 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.4 Worksheet A #1 - 15 odd
  - Work in groups to do this
- MathWorks

#### LOpps:

- **Unit 2.4.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.4 Worksheet A #1 - 15 odd

**WEDNESDAY 10/16:** PSAT / SAT Day - Schedule Altered: Periods 1, 5 after PSAT

- Work on LOpps or Take-Home for classes that meet

**THURSDAY 10/17 - FRIDAY 10/18:** THURS: Per 2, 4, 6, 8 - FRI: 1, 3, 5, 7

**TEST#4 (Units 1.12, 2.1-2.3)!!!**

**Take-Home DUE at the beginning of class!!!**

**Objective:** Show what you know!

#### Agenda:

- Take the Test!!

**LOpps:** DUE MONDAY, Oct. 21

- **Unit 2.4.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 2.4 Worksheet A #1 - 15 odd
- Get caught up if you haven't gotten all of the LOpps done up to this point!!

## AP Pre-Calculus

### Lesson Plans 10/7 – 10/11

**TEST #4 (Units 1.12, 2.1-2.3) is Thursday/Friday, October 17/18!!**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**MONDAY 10/7:**

**Unit 2.1.1:** *Change in Arithmetic and Geometric Sequences*

**Objective:** Express **arithmetic and geometric sequences** found in mathematical and contextual scenarios as functions of the whole numbers.

#### Agenda:

- **Discuss Unit 1.12.2 LOpps:** - 1.12 MEGA-Worksheet #17-26 all - *only as needed*
- **Discuss Unit 2.1 Daily Videos 1 & 2** - *only as needed*
- **Unit 2.1 Notes**
- **Unit 2.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.1 Worksheet #1 - 11 odd
- MathWorks - DOL

#### LOpps:

- **Unit 1.12 MEGA-Worksheet continued:** (make sure you have done #1 - 26, we'll add more on Wed/Thurs)

- **Unit 2.1.1 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 2.1 Worksheet #1 - 11 odd

## **TUESDAY 10/8:**

### **Unit 2.1.2: Change in Arithmetic and Geometric Sequences**

**Objective:** Express **arithmetic and geometric sequences** found in mathematical and contextual scenarios as functions of the whole numbers.

#### **Agenda:**

- **Discuss Unit 2.1.1 LOpps: 2.1 Worksheet: #1 - 11 Odd - only as needed**
- **Finish Unit 2.1.2 Notes (Part II)**
- **Unit 2.1.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.1 Worksheet #13 - 18 all
- MathWorks - DOL

#### **LOpps:**

- **Unit 2.1.2 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 2.1 Worksheet #13 - 18 all
- **Unit 2.2 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

## **WEDNESDAY 10/9 - THURSDAY 10/10:**

### **Unit 2.2: Change in Linear and Exponential Functions**

**Objective:** Construct functions of the real numbers that are comparable to **arithmetic and geometric** sequences. Describe similarities and differences between **linear and exponential functions**.

#### **Agenda:**

- **Discuss Unit 2.1.2 LOpps: 2.1 Worksheet #13 - 18 all - only as needed**
- **Units 2.2 Notes**
- **Unit 2.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.2 Worksheet A #1 - 7 all
  - Big 10 Activity
- MathWorks - DOL

#### **LOpps:**

- **Unit 2.2 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 2.2 Worksheet A #1 - 7 all
  - Complete Big 10 Activity
- **Unit 2.3 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

## **FRIDAY 10/11:**

### **Unit 2.3.1: Exponential Functions**

**Objective:** Identify key characteristics of **exponential functions**.

#### **Agenda:**

- **Discuss Unit 2.2 LOpps: - only as needed**
  - 2.2 Worksheet A #1 - 7 all
- **Units 2.3 Notes**
- **Unit 2.3.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 2.3 Worksheet A #1 - 13 odd, 8, 10

- **Unit 1.12 MEGA-Worksheet #27 - 35 all**
- **MathWorks - DOL (APC problems)**

#### **LOpps:**

- **Unit 1.12 MEGA-Worksheet #27 - 35 all** (*this entire packet should be complete after this!*)
- **Unit 2.3.1 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - 2.3 Worksheet A #1 - 13 odd

**TEST #4 (Units 1.12, 2.1-2.3) is Thursday (Per 2, 4, 6, 8)/Friday (Per 1, 3, 5, 7) October 17/18!!**

## **AP Pre-Calculus**

### **Lesson Plans 9/30 – 10/2 - WEEK 8**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**TEST #4 (Units 1.12, 2.1 - 2.3) is Wed/Thurs, Oct. 17/18!!**

#### **MONDAY 9/30: Per 1 - 8**

##### **Unit 1.12.4: Transformations of Functions**

**Objective:** Construct a function that is an **additive and/or multiplicative transformation** of another function.

##### **Agenda:**

- **Discuss Unit 1.12.3 LOpps: - only as needed**
  - Unit 1.12 Worksheet B #1 - 12 all
  - Unit 1.12 Worksheet C #1 - 11 all
- **Desmos Discovery Activity - DO THIS ON YOUR COMPUTER!!**
- **Distribute 1.12 MEGA-Worksheet**
- **Unit 1.12 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.12 MEGA-Worksheet - # 1 - 6
- **MathWorks - DOL**

#### **LOpps:**

- **Unit 1.12.4 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - Unit 1.12 Worksheet - # 1 - 6

#### **TUESDAY 10/1: Per 1 - 8**

##### **Unit 1.12.5: Transformations of Functions**

**Objective:** Construct a function that is an **additive and/or multiplicative transformation** of another function.

##### **Agenda:**

- **Discuss Unit 1.12.4 LOpps: MEGA-Worksheet # 1 - 6 - only as needed**
- **Unit 1.12.5 Classwork** (whatever we don't get done in class is part of LOpps)
  - **Unit 1.12 Classwork** (whatever we don't get done in class is part of LOpps)
    - Unit 1.12 MEGA-Worksheet - # 7 - 16 all
- **MathWorks - DOL**

#### **LOpps:**

- **Unit 1.12 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - Unit 1.12 MEGA-Worksheet - # 7 - 16 all

## WEDNESDAY 10/2 *Per 1 - 8*

### **MORE 1.12 Work**

#### **Unit 1.12.6: Transformations of Functions**

**Objective:** Construct a function that is an **additive and/or multiplicative transformation** of another function.

#### **Agenda:**

- **Discuss Unit 1.12 MEGA-Worksheet - # 7 - 16 all**
- **Return & Discuss Test #3 (1.7 - 1.11)**
- *Big 10 and Mixed Six Activities - Dox forgot to had this out to her class, will do next week*
- *Mathworks - DOL*

#### **LOpps: Due Monday Oct. 7**

- **Unit 1.12.6 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - *FINISH (Redo) the problems (#7 - 16) you didn't have done from MEGA-Worksheet for Friday's class*
  - *Complete Big 10 and Mixed Six Activities (Andrade's class, if you didn't finish in class)*
  - *1.12 MEGA-Worksheet #17-26 all*
- **Unit 2.1 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes

## THURSDAY 10/3

Teacher In-Service - No Students

## FRIDAY 10/4:

*School Holiday*

#### **LOpps:**

- **Unit 1.12.6 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - *1.12 MEGA-Worksheet #17-26 all*
  - *Complete Big 10 and Mixed Six Activities*
- **Unit 2.1 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes

**TEST #4 (Units 1.12, 2.1 - 2.3) is Wed/Thurs, Oct. 17/18!!**

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## **AP Pre-Calculus**

### **Lesson Plans 9/23 – 9/27 - WEEK 7**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**TEST #3 (Units 1.7 - 1.11) is Wednesday/Thursday, Sept. 25/26!!**

## MONDAY 9/23:

### **Unit 1.12: Transformations of Functions**

**Objective:** Construct a function that is an **additive and/or multiplicative transformation** of another function.

#### **Agenda:**

- **Discuss Unit 1.11.2 LOpps:** *- only as needed*
- **Unit 1.12 Notes (Examples #1 - 4)**



- **Unit 1.12 Classwork** (whatever we don't get done in class is part of LOpps)
  - 1.12 Worksheet A #1 - 11 odd
- **Test #3 Take-Home given out in class! (This is DUE at the BEGINNING of class on Test Day!!)**
- MathWorks - DOL

#### LOpps:

- **Unit 1.12.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.12 Worksheet A #1 - 11 odd
- **Work on Test #3 Take-Home**
  - Study all materials for Test #3 material (No Old Material on this test!)

#### TUESDAY 9/24:

##### **Unit 1.12.2: Transformations of Functions**

**Objective:** Construct a function that is an **additive and/or multiplicative transformation** of another function.

#### **Agenda:**

- Discuss Unit 1.12.1 LOpps: 1.12 Worksheet A #1 - 11 odd - *only as needed*
- Unit 1.12 Notes, continued (Examples #5 - 9)
- Unit 1.12 Classwork (whatever we don't get done in class is part of LOpps)
  - 1.12 Worksheet A #2 - 12 even, 13, 14, 15
- Time to work on Take-Home Test!
- MathWorks - DOL

#### LOpps: (Due Friday, September 27)

- Unit 1.12.2 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.12 Worksheet A #2 - 12 even, 13, 14, 15

#### WEDNESDAY 9/25 - THURSDAY 9/26:

##### **TEST#3 (Units 1.7-1.11)!!!**

##### **Take-Home DUE at the beginning of class!!!**

**Objective:** Show what you know!

#### **Agenda:**

- Take the Test!!

#### LOpps: (Due Friday, September 27)

- Unit 1.12.2 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.12 Worksheet A #2 - 12 even, 13, 14, 15

#### FRIDAY 9/27: We are on the ALTERNATE Calendar!!

##### **Unit 1.12.3: Transformations of Functions**

**Objective:** Construct a function that is an **additive and/or multiplicative transformation** of another function.

#### **Agenda:**

- Discuss Unit 1.12.2 LOpps: 1.12 Worksheet A #2 - 12 even, 13, 14, 15 - *only as needed*
- Unit 1.12 Worksheet B #1 - 12 all
- Unit 1.12 Worksheet C #1 - 11 all

#### LOpps:

- Unit 1.12.3 LOpps: (Whatever we didn't get done in class is part of LOpps)



- Unit 1.12 Worksheet B #1 - 12 all
- Unit 1.12 Worksheet C #1 - 11 all

**We are on the ALTERNATE Calendar!!**

**TEST #4 (Units 1.12, 2.1 - 2.3) is Wed/Thurs, Oct. 17/18!!**

## AP Pre-Calculus

### Lesson Plans 9/16 – 9/20 - WEEK 6

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections represent that the lesson has occurred.*

**TEST #3 (Units 1.7 - 1.11) is Wednesday/Thursday, Sept. 25/26!!**

#### MONDAY 9/16:

##### **Unit 1.9: Rational Functions and Vertical Asymptotes**

**Objective:** Determine **vertical asymptotes** of graphs of rational functions.

##### **Agenda:**

- **Discuss Unit 1.8 LOpps:** - *only as needed*
- **Unit 1.9 - 1.10 Notes (Examples #1 & #2)**
- **Unit 1.9 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.9 - 1.10 Worksheet #1 - 9 odd
- **MathWorks - DOL**

##### **LOpps:**

- **Unit 1.9 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.9 - 1.10 Worksheet #1 - 9 odd
- **Unit 1.10 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

#### TUESDAY 9/17:

##### **Unit 1.10: Rational Functions and Holes**

**Objective:** Determine **holes** in graphs of rational functions.

##### **Agenda:**

- **Discuss Unit 1.9 - 1.10 Worksheet #1 - 9 odd**
- **Unit 1.9 - 1.10 Notes (Examples #3 & #4)**
- **Unit 1.10 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.9 - 1.10 WS #4, 6, 10 - 12

##### **LOpps:**

- **Unit 1.10 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.9 - 1.10 WS #4, 6, 10 - 12
- **Unit 1.11 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class

#### WEDNESDAY 9/18 - THURSDAY 9/19:

##### **Unit 1.11.1: Equivalent Representations of Polynomial and Rational Expressions**

**Objective:** Determine *holes* in graphs of rational functions. Determine the **quotient of two polynomial functions** using long division and synthetic division.

**Agenda:**

- **Discuss Unit 1.10 LOpps:** - *only as needed*
- **Unit 1.11.1 Notes (Examples #1 - 9, pg. 1 - 4)** (stop at Pascal's Triangle and the Binomial Theorem)
- **Unit 1.11.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.11 WS-A #1 - 4
- MathWorks - DOL

**LOpps:**

- **Unit 1.11.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.11 WS-A #1 - 4

**FRIDAY 9/20:**

**Unit 1.11.2, continued: Equivalent Representations of Polynomial and Rational Expressions**

**Objective:** Determine *holes* in graphs of rational functions. Determine the **quotient of two polynomial functions** using long division and synthetic.

**Agenda:**

- **Return & Discuss Test #2**
- **Discuss Unit 1.11.1 LOpps:** - *only as needed*
  - Unit 1.11 WS-A #1 - 4
- **Unit 1.11.2 Notes (Examples #10 - 13, pg. 5 - 6)** (Pascal's Triangle and the Binomial Theorem)
- **Unit 1.11.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.11 WS-B #1 - 10
- MathWorks - DOL

**LOpps:**

- **Unit 1.11.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.11 WS-B #1 - 10
- **Unit 1.12 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class

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## AP Pre-Calculus

### Lesson Plans 9/9 – 9/13 - WEEK 5

#### **Test #2 (1.1 - 1.6) Wednesday/Thursday, Sept. 11/12**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**MONDAY 9/9:**

**Unit 1.7 Intro: RATEY**

**Objective:** Students will become familiar with the elements of Rational Functions (**Asymptotes, Zeros, End Behavior, Intercepts**) and be able to sketch them with basic information.

**Agenda:**

- Unit 1.5 Partner Quiz - **(15 min)**
- **Intro to RATEY Notes – Partner Activity (5 min) – work with same partner as quiz partner**

- Pick up 1.7 - 1.11 Daily Video Notes
- Pick up RATEY Notes
- RATEY Notes - (15 min)
  - Unit 1.7 Intro - RATEY Classwork (whatever we don't get done in class is part of LOpps)
  - Supplemental Problems for RATEY
- Unit 1.1 - 1.6 Supplemental Worksheets
  - see the WS that were NOT assigned that are in your WS Packet!!
  - You can work any of these problems and come check your answers with your teacher's Key
- **Test #1 Returned and discussed - (10 min)**
  - REMEMBER that Test #2 will have Old Material on it (from Test #1) and you can add to your original score on Test #1 with a good performance on this part of Test #2
  - You can make corrections to your test as we go over them in class for your reference!!
  - For a longer look at the Key, you can come in and go through it during lunch or after school
- Discuss Unit 1.6 LOpps: - only as needed, time permitting, otherwise discussed on Tuesday
- There will be a Unit 1.5-1.6 Partner Quiz on Tuesday
- MathWorks - DOL

#### LOpps:

- Unit 1.7 Intro LOpps: (Whatever we didn't get done in class is part of LOpps)
  - 3 Supplemental Problems for RATEY
  - Copy from the board
- Unit 1.7 Prep: Watch Daily Videos for next class, transcribe notes onto Guided Notes handed out in class.

**Test #2 (1.1 - 1.6) Wednesday/Thursday, Sept. 11/12**

#### TUESDAY 9/10:

##### Unit 1.7: Rational Functions and End Behavior

**Objective:** Describe end behaviors of rational functions.

##### Agenda:

- Unit 1.5-1.6 Partner Quiz (15 min)
- Discuss Unit 1.6 LOpps: - only as needed, time permitting, otherwise discussed on Tuesday
- Discuss Unit 1.7 Intro LOpps: 3 Supplemental Problems for RATEY (show answers) - only as needed
- Pick up 1.7 - 1.11 In-Class Notes Packet and Worksheet Packet
- MathWorks - DOL

#### LOpps: Due Wednesday/Thursday, Sept 11/12

- Please note that the test tomorrow is only 1 hr, so we will cover Unit 1.7 Notes during the last 30 min!
- **THE 1.7 LOpps ARE NOT ASSIGNED UNTIL AFTER THE TEST, DUE FRIDAY, SEPT. 13!!!**
  - Unit 1.7 LOpps: (Whatever we didn't get done in class is part of LOpps)fz
  - Unit 1.7 Worksheet #1 - 15 odd
- The 1.8 Daily Video Notes is NOT due Wed/Thurs. It is due for FRIDAY'S class!!

**Test #2 (1.1 - 1.6) Wednesday/Thursday, Sept. 11/12**

#### WEDNESDAY 9/11 - THURSDAY 9/12:

**TEST#2 (Units 1.1-1.6)!!! (1 hr)**

## **Unit 1.7: Rational Functions and End Behavior** (30 min)

**Objective:** *Describe end behaviors of rational functions.*

### **Agenda:**

- **Discuss Unit 1.7 Daily Videos 1 & 2** - *only as needed*
- **Unit 1.7 Notes**
- **Unit 1.7 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.7 Worksheet #1 - 15 odd
- **MathWorks - DOL**

### **LOpps:**

- **Unit 1.7 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.7 Worksheet #1 - 15 odd
- **Unit 1.8 Prep: Watch Daily Videos** for the next class, **transcribe notes** onto Guided Notes handed out in class.

## **FRIDAY 9/13:**

### **Unit 1.8: Rational Functions and Zeros**

**Objective:** *Determine the zeros of rational functions.*

### **Agenda:**

- **Discuss Unit 1.7 LOpps:** - *only as needed*
- **Discuss Unit 1.8 Daily Videos 1 & 2** - *only as needed*
- **Unit 1.8 Notes**
- **Unit 1.8 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.8 Worksheet #1 - 11 all, 13 - 19 odd

### **LOpps:**

- **Unit 1.8 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.8 Worksheet #1 - 11 all, 13 - 19 odd
- **Unit 1.9 Prep: Watch Daily Videos** for the next class, **transcribe notes** onto Guided Notes handed out in class.

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## **AP Pre-Calculus**

### **Lesson Plans 9/2 – 9/6 - WEEK 4**

### **Test #2 (1.1 - 1.6) Wednesday/Thursday, Sept. 11/12**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

## **MONDAY 9/2:**

**LABOR DAY - No School**

## **TUESDAY 9/3:**

**Teacher In-Service - No Students**

## **WEDNESDAY 9/4 - THURSDAY 9/5:**

### Unit 1.5: Polynomial Functions and Complex Zeros

**Objective:** Identify key characteristics of a polynomial function related to its **zeros** when suitable factorizations are available or with technology. Determine if a polynomial **function is even or odd**.

#### Agenda:

- **Calculator page of Test #1** (15 min)
- **Discuss Unit 1.5 Daily Videos 1 & 2** - only as needed
- **Unit 1.5 Notes**
- **Unit 1.5 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.5 Worksheet A #1 - 21 odd
- MathWorks - DOL

#### LOpps:

- **Unit 1.5 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.5 Worksheet A #1 - 21 odd
- **Unit 1.6 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.

### FRIDAY 9/6:

### Unit 1.6: Polynomial Functions and End Behavior

**Objective:** Describe **end behaviors** of polynomial functions.

#### Agenda:

- **Discuss Unit 1.5 LOpps:** #1 - 21 odd - only as needed
- **Discuss Unit 1.6 Daily Videos 1 & 2** - only as needed
- **Unit 1.6 Notes**
- **Unit 1.6 Classwork** (whatever we don't get done in class is part of LOpps)
  - Unit 1.6 Worksheet A #1 - 14
- There will be a Unit 1.5 Partner Quiz on Monday
- MathWorks - DOL

#### LOpps:

- **Start reviewing for Test #2 - THIS MEANS TO REWORK LOpps AND OTHER PROBLEMS!!**
- **You will get back Test #1 on Monday, and we will go over it....the Old Material will be a part of Test #2**
- **Unit 1.6 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Unit 1.6 Worksheet A #1 - 14

### ~~Unit 1.1 - 1.6~~

~~**Objective:** Students will review all concepts from Units 1.1 - 1.6~~

#### ~~Agenda:~~

- ~~• **Discuss Unit 1.6 LOpps:** - only as needed~~
- ~~• **Unit 1.1 - 1.6 Various Supplemental Sheets**~~
- ~~• MathWorks - DOL~~

#### ~~LOpps:~~

- ~~• **Unit 1.7 Prep: Watch Daily Videos** for next class, **transcribe notes** onto Guided Notes handed out in class.~~

## **Test #1 (Circuit #1, #2, Units 1.1 - 1.3) Friday, Aug. 30**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

### **MONDAY 8/26:**

#### **Unit 1.4.1: Polynomial Functions and Rates of Change**

**Objective:** *Identify key characteristics of polynomial functions related to rates of change.*

#### **Agenda:**

- **Discuss Unit 1.1-1.3 Supplemental LOpps:** - *only as needed*
  - Supplemental Worksheets - Unit 1.3 WORKSHEET B (in the WS packet)
- **Distribute Unit 1.4 - 1.6 In-Class Notes and 1.4 - 1.6 Worksheets packets**
- **Unit 1.4.1 Notes**
  - Unit 1.4 Worksheet A #1 - 12
- **Supplemental Worksheets** - STATIONS (1.1 - 1.3 Review) – remainder of class
  - Time allowed to work on them and check answers with each other
  - REMEMBER TO REWORK ALL OTHER NOTES & LOpps YOU HAVE HAD SINCE THE 1ST DAY!!
- MathWorks - DOL

#### **LOpps:**

- Four Corners WS - *don't forget to do this ....should have been done for today, but forgot to put it on the LOpps*
- **Unit 1.4.1 LOpps: (Whatever we didn't get done in class is part of LOpps)**
  - Unit 1.4 Worksheet A #1 - 12
- **1.1 - 1.3 Review: STATIONS** – try to get at least ½ done for tomorrow's class
- **STUDY FOR EXAM #1**
  - REMEMBER TO REWORK ALL OTHER NOTES & LOpps YOU HAVE HAD SINCE THE 1ST DAY!!
- REMEMBER TO REWORK ALL OTHER NOTES & LOpps YOU HAVE HAD SINCE THE 1ST DAY!!
- **Unit 1.4.2 Prep: RE-Watch Daily Videos** for next class, **transcribe notes** in DVN

### **TUESDAY 8/27:**

#### **Unit 1.4.2: Polynomial Functions and Rates of Change**

**Objective:** *Identify key characteristics of polynomial functions related to rates of change.*

#### **Agenda:**

- **Discuss Four Corners**
- **Discuss Unit 1.4.1 LOpps:** - *only as needed*
  - 1.4 Worksheet A #1 - 12
- **Unit 1.4.2 Notes** – pg. 3
  - 1.4 Worksheet A #13 - 28
- **Supplemental Worksheets** - STATIONS (1.1 - 1.3 Review) – remainder of class
  - Time allowed to work on them and check answers with each other
  - REMEMBER TO REWORK ALL OTHER NOTES & LOpps YOU HAVE HAD SINCE THE 1ST DAY!!
- MathWorks - DOL

#### **LOpps:**

- ~~**STUDY FOR EXAM #1**~~
  - ~~REMEMBER TO REWORK ALL OTHER NOTES & LOpps YOU HAVE HAD SINCE THE 1ST DAY!!~~

- ~~Unit 1.4.2 LOpps: (Whatever we didn't get done in class is part of LOpps) (DUE Friday, Aug. 30)~~

- ~~Worksheet A #13 - 28~~

- ~~Unit 1.5 Prep: Watch Daily Videos for next class, transcribe notes in DVN (DUE Friday, Aug. 30)~~

**LOpps: (DUE Thursday, Aug. 30)**

- Finish Four Corners, if you have not yet
- Unit 1.4.2 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - Worksheet A #13 - 28

**WEDNESDAY 8/28 - THURSDAY 8/29: - Transformer Out, no electricity on campus, no students on Wednesday... Test Moved to Friday UNLESS Thurs/Fri become even/odd block days. THEN Test #1 will be Thurs/Fri of THIS week**

**TEST#1 (Circuits #1, 2, Units 1.1-1.3)!!!**

**Objective:** Show what you know!

**Agenda:**

- Take the Test!!

**LOpps: (DUE Friday, Aug. 30)**

- Unit 1.4.2 LOpps: (Whatever we didn't get done in class is part of LOpps)
  - Worksheet A #13 - 28
- Unit 1.5 Prep: Watch Daily Videos for next class, transcribe notes in DVN

**THURSDAY 8/29: Periods 1 - 8 Day**

**Unit 1.4.2: Polynomial Functions and Rates of Change**

**Objective:** Identify key characteristics of polynomial functions related to rates of change.

**Agenda:**

- Discuss Four Corners
- Discuss Unit 1.4 LOpps: Unit 1.4 Worksheet A #13 - 28 - only as needed
- Supplemental Worksheets - STATIONS (1.1 - 1.3 Review) – remainder of class
  - Time allowed to work on them and check answers with each other
- Make sure you can use the calculators to find slope, maximum/minimum values, etc.
- Finish Preparing for Test #1

**FRIDAY 8/30: Periods 1 - 8 Day**

**TEST#1 (Circuits #1, 2, Units 1.1-1.3)!!!**

**Objective:** Show what you know!

**Agenda:**

- Take the Test!! (Non-Calculator part)
  - Calculator part (15 min) at beginning of class on Wed/Thur, Sept 4/5

**LOpps: (DUE Wednesday/Thursday, Sept. 4/5)**

- Unit 1.5 Prep: Watch Daily Videos for next class, transcribe notes in DVN



# AP Pre-Calculus

## Lesson Plans 8/19 – 8/23 - WEEK 2

### Test #1 (Circuit #1, #2, Units 1.1 - 1.3) Wednesday/Thursday, Aug. 28/29

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

#### MONDAY 8/19:

##### **Unit 1.1: Change in Tandem**

**Objective:** Describe how the **input and output values** of a function **vary** together by comparing function values.

Construct a graph representing two quantities that vary with respect to each other in a contextual scenario.

##### **Agenda:**

- Get Temporary Tutorial Pass this week - some day this week
- **Discuss 1.0 Vocabulary Sheet** - *if necessary*
- **Discuss Unit 1.1 Daily Videos 1 & 2** - only as needed
- Distribute In-Class Lecture Notes (ICN) Packet and Worksheet-LOpps (WSL) Packet
- **Unit 1.1 Notes** Changes in Tandem
- **Unit 1.1 Classwork** (whatever we don't get done in class is part of LOpps)
  - 1.1 Worksheet A - all
- MathWorks - DOL

##### **LOpps:**

- **Unit 1.1 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - All Classes: finish the 1.1 Notes- you might need to use your 1.1 DVN for assistance
  - 1.1 Worksheet A - all
- **Unit 1.2 Prep: Watch Daily Videos 1 & 2** for next class, **transcribe notes** into DVN

#### TUESDAY 8/20:

##### **Unit 1.2: Rates of Change**

**Objective:** Compare the **rates of change** at two points using **average rates of change** near the points. Compare the rates of change at two points using average rates of change near the points.

##### **Agenda:**

- **Check the rest of the 1.1 Notes** - *you should have done it for LOpps*
- **Discuss Unit 1.1 LOpps (Worksheet 1.1A)**
- **Discuss Unit 1.2 Daily Videos 1 & 2** - only as needed
- **Unit 1.2 Notes**
- **Unit 1.2 Classwork** (whatever we don't get done in class is part of LOpps)
  - 1.2 Worksheet A: all
- MathWorks - DOL

##### **LOpps:**

- *Dox's Class:* finish the 1.2 Notes - you might need to use your 1.2 DVN for assistance
- **Unit 1.2 LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - 1.2 Worksheet A: all
- **Unit 1.3 Prep: Watch Daily Videos** for next class, **transcribe notes** in DVN



### WEDNESDAY 8/21 - THURSDAY 8/22:

#### **Unit 1.3: Rates of Change in Linear and Quadratic Functions**

**Objective:** Determine the **average rates of change for sequences and functions**, including linear, quadratic, and other function types. Determine the **change in the average rates of change** for linear, quadratic, and other function types.

#### **Agenda:**

- **Check the rest of the 1.2 Notes - you should have done it for LOpps**
- **Discuss Unit 1.2 LOpps:** 1.2 Worksheet A - only as needed
- **Discuss Unit 1.3 Daily Videos 1 & 2** - only as needed
- **Unit 1.3 Notes**
- **Unit 1.3 Classwork** (whatever we don't get done in class is part of LOpps)
  - Two Truths and a Lie WS (reviews 1.1)
  - I Spy WS (reviews 1.2)
  - 1.3 Worksheet A
- **MathWorks - DOL**

#### **LOpps:**

- **Unit 1.3 LOpps:**
  - Two Truths and a Lie WS (1.1)
  - I Spy WS (1.2)
  - Unit 1.3 Worksheet A
- **Get your organizational system for keeping track of all the handouts in class orderly so you can easily find your materials for class. This is going to be worth Bonus Points on the 1st test if it is a good system that you can use and that allows you to keep the flow of Course information logical.**

### FRIDAY 8/23:

#### **Unit 1.1-1.3: Rates of Change and Applications**

**Objective:** Determine the **average rates of change for sequences and functions**, including linear, quadratic, and other function types. Determine the **change in the average rates of change** for linear, quadratic, and other function types.

#### **Agenda:**

- **Discuss Unit 1.2 and 1.3 LOpps:** - only as needed
  - **Unit 1.2 LOpps:**
    - Two Truths and a Lie WS
    - I Spy WS
  - **Unit 1.3 LOpps:**
    - Unit 1.3 Worksheet A
- **Unit 1.1-1.3 Classwork** (whatever we don't get done in class is part of LOpps)
  - Four Corners WS
  - Supplemental Worksheets - Unit 1.3 WORKSHEET B (In the WS packet)
- **Hand out the 1.4 - 1.6 DVN packet**
  - Remind students that the time will come when we give a short Video Quiz over the concepts presented in the videos!!
- **MathWorks - DOL**

### LOpps:

- **Unit 1.1-1.3 Supplemental LOpps:** (Whatever we didn't get done in class is part of LOpps)
  - Supplemental Worksheets - Unit 1.3 WORKSHEET B
- **Make sure you have your ORGANIZATIONAL SYSTEM ready for class!!!**
- **Start studying for Test #1** by reviewing Circuit #1, Circuit #2 and all 1.1 - 1.3 Work!!
- **Unit 1.4.1 Prep: Watch Daily Videos** for next class, **transcribe notes** in DVN

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## AP Pre-Calculus

### Lesson Plans 8/12 – 8/16 - WEEK 1

### Test #1 (Circuit #1, #2, Units 1.1 - 1.3) Wednesday/Thursday, Aug. 28/29

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

**MONDAY 8/12:** *super short (25 min) class @ 4th; regular class time (45 min) @ other periods (super long @ 1st)*

#### Welcome Back Class!

**Objective:** Easy Re-entry to School

#### Agenda:

- Calendar Distribution and Explanation
  - Unit Number: what that means (DVN due, Previous Class LOpps due, In-Class Live Lesson that day)
  - B-Day Explanation on Calendars
- Summer Packet Expectations - there aren't any
- What is AP Pre-Calculus all about?
- **Syllabus**
- MathWorks - DOL
- **1st Period:** Re-teach all of **Factoring** (DTS, PST, STC/DTC, Cubed Binomial, Factoring by Grouping)
- **Other Periods:** Start Re-teach **Factoring** (DTS, PST, STC/DTC, Cubed Binomial, Factoring by Grouping)
  - *Morning classes super short so we didn't get as far!*

### LOpps:

- Have Syllabus read and signed by you and a parent/guardian - **Due Friday**

### TUESDAY 8/13:

#### Re-Entry Activities, Day 1

**Objective:** Build Basic Skills

#### Agenda:

- Finish Re-teaching **Factoring** (DTS, PST, STC/DTC, Cubed Binomial, Factoring by Grouping)
- Circuit Training #1 (**Advanced Factoring**)
- MathWorks - DOL

### LOpps:

- Complete Circuit #1 (**Advanced Factoring** - VC) - (no calculators, computer, or other resources except for lesson notes)

### WEDNESDAY 8/14 - THURSDAY 8/15:

#### **Re-Entry Activities, Day 2**

**Objective:** AP Scores and Process, Instill Confidence, Growth Mindset, Refresh Pre-Learned Knowledge, Tutorials

#### **Agenda:**

- Discuss Expectations on **Syllabus**
  - Dox' Class: Names & Birthday Calendar
  - Birthdays from 8/12 - 8/15 - Dox's class)
- Circuit #1 Quiz (2 min)
- Discuss Circuit #1 (**Advanced Factoring**)
- Circuit Training #2 (**Algebra 2 Review**)
- MathWorks - DOL

#### **LOpps:**

- Complete Circuit #2 (Algebra 2 Review)
- **Make sure you come to class with computers CHARGED for Friday's class!!**

### FRIDAY 8/16:

#### **Re-Entry Activities, Day 3**

**Objective:** Collaboration, Confidence-Building

#### **Agenda:**

- **Signed Syllabus Due**
- Circuit #2 Quiz (2 min)
- Discuss Circuit #2 (**Algebra 2 Review**) - (10 min)
- Introduction to Vocabulary - start in class, students work for (5 min)
- Begin Unit on **Polynomial and Rational Functions** (Unit 1)
  - Join AP Classroom:
    - Doxtater Join Code: YG3W3D
    - Andrade Join Code:
    - Vo Join Code:
  - Distribute Daily Video Notes (DVN) Packet
  - Show Unit 1.1 Daily Video 1
- MathWorks - DOL

#### **LOpps:**

- Complete 1.0 Introduction to Vocabulary Sheet from class if not finished in class
- **Watch Unit 1.1 Video 1 and Video 2 (from AP Classroom) by Monday, use Daily Video Notes (DVN) that were handed out in class**
- **Get ready for the Commitment to Excellence!!**

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(TEMPLATE)

AP Pre-Calculus

**Lesson Plans ?/? – ?/? - WEEK #**

**Bold** words in the Objective and Agenda Sections are the **Key Words** for the lesson.

*Italicized sections* represent that the lesson has occurred.

## **MONDAY ?/?:**

**Unit ??: Title**

**Objective: ??**

**Agenda:**

- **Discuss Unit ?? LOpps:** - *only as needed*
- **DOL over Lesson Videos**
- **Discuss Unit ?? Daily Videos 1 & 2** - *only as needed*
- **Unit ?? Notes**
- **Unit ?? Classwork** (*whatever we don't get done in class is part of LOpps*)
  -
- **MathWorks - DOL** (TBA in class)

**LOpps:**

- **Unit ?? LOpps:** (*Whatever we didn't get done in class is part of LOpps*)
  -
- **Unit ?? Prep:** *Watch Daily Videos* for next class, **transcribe notes** onto *Guided Notes*

## **TUESDAY ?/?:**

**Unit ??: Title**

**Objective: ??**

**Agenda:**

- **Discuss Unit ?? LOpps:** - *only as needed*
- **DOL over Lesson Videos**
- **Discuss Unit ?? Daily Videos 1 & 2** - *only as needed*
- **Unit ?? Notes**
- **Unit ?? Classwork** (*whatever we don't get done in class is part of LOpps*)
  -
- **MathWorks - DOL** (TBA in class)

**LOpps:**

- **Unit ?? LOpps:** (*Whatever we didn't get done in class is part of LOpps*)
  -
- **Unit ?? Prep:** *Watch Daily Videos* for next class, **transcribe notes** onto *Guided Notes*

## **WEDNESDAY ?/? - THURSDAY ?/?:**

**Unit ??: Title**

**Objective: ??**

**Agenda:**

- **Discuss Unit ?? LOpps:** - *only as needed*
- **DOL over Lesson Videos**
- **Discuss Unit ?? Daily Videos 1 & 2** - *only as needed*
- **Unit ?? Notes**
- **Unit ?? Classwork** (*whatever we don't get done in class is part of LOpps*)
  -
- **MathWorks - DOL** (TBA in class)

**LOpps:**

- Unit ?? LOpps: (*Whatever we didn't get done in class is part of LOpps*)
  -
- Unit ?? Prep: *Watch Daily Videos* for next class, *transcribe notes* onto Guided Notes

**FRIDAY ?/?:**

**Unit ??:** Title

**Objective:** ??

**Agenda:**

- Discuss Unit ?? LOpps: - *only as needed*
- DOL over Lesson Videos
- Discuss Unit ?? Daily Videos 1 & 2 - *only as needed*
- Unit ?? Notes
- Unit ?? Classwork (*whatever we don't get done in class is part of LOpps*)
  -
- MathWorks - DOL (TBA in class)

**LOpps:**

- Unit ?? LOpps: (*Whatever we didn't get done in class is part of LOpps*)
  -
- Unit ?? Prep: *Watch Daily Videos* for next class, *transcribe notes* onto Guided Notes