

GEOMETRY ASSIGNMENT GUIDE

Unit I Trigonometry

(CHAPTER 12)

Looking for [ch 9 Syllabus](#)?

- **UNIT'S [NOTES AND HWK PACKET](#)**

- [HWK PACKET SOLUTIONS](#) AND [Completed notes](#)
 - [EXTRA PRACTICE PROBLEMS](#) (AND [solutions](#))
 - [Videos](#)
 - [Formulas](#)
 - [Optional Ramp Project](#)

[Trig videos](#)

DAY Date Assigned	SECTION	In-Class Objectives	HOMEWORK Packet	Videos A/B: Above and Beyond Probs
Day A	12.1	Trigonometry notes packet	pgs 1-2 in hwk packet	
Day B	12.1	Test Correction & estimating ratios	Test corrections and salmon packet pg 2: do 5 probs	
Day C	12.1	Using Trig equations -to find a side	Salmon Packet 2nd side(#9-14) Quiz tomorrow	Video
Day D	12.1	Using Trig equations -to find an angle	Salmon Packet 3rd page and test corrections similar problems	Inverse Trigonometric Functions
Day E	12.2	Video Trig Applications	Salmon Packet: Part 12.2A , do 5 probs, drawing out situation and right triangle Optional: Practice Review	Video
Day F	Review		Review packet	More Complete the Review & solutions Wksht 12.1-12.2 solutions
Day G	Review		Review solutions	Unit Review Packet & Solutions & page 2 ; Take-home quiz Key More Practice: Chapter 12 Review

				Review/ Quiz Corrections Key
Day H	Quizzam	12.1 & 12.2		

Essential Questions

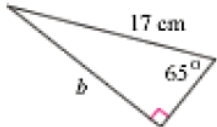
- What is a Trigonometric Ratio (ex: What does $\sin A$ represent?)
- How many and which pieces of a triangle need to be given to find the other missing pieces?
- How do you use the law of sines, in what kinds of triangles will it work, and what information about the triangle must be given?

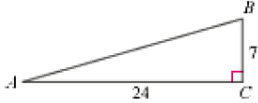
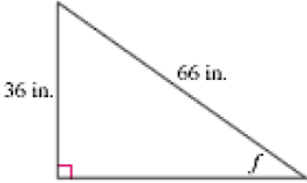
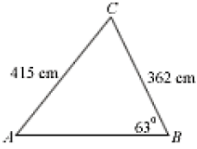
Essential Targets

- For a *right triangle*, set up and solve Trig Equations to find an unknown side length or angle measure.
- For *any triangle*, set up and solve a Proportion involving *sin* to find an unknown side length or angle measure.

⇒ For each Subtarget rate[and re-rate] your level of understanding:

- **P**(roficient-get it & can do it),
- **r**(eview it-need a bit more practice),
- **T**(Itutoring needed-help me now!)

Ch 12 Subtargets	Sample Problems	Level of Current Understanding
12.1a I can apply sine, cosine, and tangent ratios to find an unknown side in a <i>right</i> triangle		

	 $\sin B = \frac{?}{?}$ $\cos B = \frac{?}{?}$ $\tan B = \frac{?}{?}$	
12.1b I can solve for the unknown angles of a <i>right</i> triangle using inverse trig.		
12.2a I can use trig to solve real-world problems of indirect measurement, involving angles of elevation & depression.	APPLICATION The angle of elevation from a ship to the top of a 42-meter lighthouse on the shore measures 33°. How far is the ship from the shore? (Assume the horizontal line of sight meets the bottom of the lighthouse.)	
12.3a I can find the unknown sides or angles of <i>any</i> triangle in a situation of SSA, ASA, or AAS	FIND ANGLE C 	

OLD [notes](#) PACKET

CHAPTER'S [NOTES](#) AND [HWK](#) PACKET

- For homework,
 - Label **large** diagrams
 - Mark diagram, showing work or giving conjecture/explanation for single answers
 - If you can't solve a problem, write out your question
- **BRING YOUR NETBOOK**
- **CHAPTER'S NOTES AND HWK PACKET**
 - Remember to check packet hwk **solutions** *before* coming to class
 - **EXTRA PRACTICE PROBLEMS (AND solutions)**
 - **Videos**
 - **Formulas**
- GET TEXT MESSAGE OR EMAIL, REMINDERS by clicking [here](#)

DAY Date Assigned	SECTION	In-Class Objectives	<u>HOMWORK</u> Packet	Videos <u>A/B</u> : Above and Beyond Probs
Day A 5/6	12.1	Trigonometry notes packet	1st page hwk packet #1-8	
Day B 5/9	12.1	Test Correction & estimating ratios	Test corrections and salmon packet pg 2: do 5 probs	
Day C 5/10	12.1	Using Trig equations -to find a side	Salmon Packet 2nd side(#9-14) Quiz tomorrow	Video
Day D 5/11	12.1	Using Trig equations -to find an angle	Salmon Packet 3rd page and test corrections similar problems	Inverse Trigonometric Functions
Day E 5/12	12.2	Video Trig Applications	Salmon Packet: Part 12.2A , do 5 probs, drawing out situation and right triangle Optional: Practice Review	Video
Day F 5/13	Review		Unit Exam is Soon	More Complete the Review & solutions Wksht 12.1-12.2 solutions
Day G 5/16	Review		Unit Review Packet & Solutions & page 2 ; Take-home quiz Key	More Practice: Chapter 12 Review Review/ Quiz Corrections Key
Day H 5/17	Quizzam	12.1 & 12.2	Start Semester Review packet	Sem Learning Targets Semester review

				<u>Resources</u>
Day I		Sem Rev (Go outside?)	<u>Semester Review Packet</u> with answers <u>Formulas</u> sheet	<u>Semester Concept Study Guide</u>
Day J		Review	Semester review packet <u>Solutions</u> (& <u>part 2</u>)	<i>YEAR END <u>SURVEY</u></i>
	Final Exam CFA			

				Sem Learning Targets <u>Semester review</u> <u>Resources</u>
Day I		Sem Rev	<u>Semester Review</u> <u>Packet</u> with answers <u>Formulas</u> sheet	<u>Semester Concept Study</u> <u>Guide</u>
Day J		Review	Semester review packet Solutions (& part 2)	YEAR END <u>SURVEY</u>
	Final Exam CFA			

Quiz	12.1-12.2 & Pyth Theorem, Dist formula, & circles.		ACT <u>questions</u>
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12.3	Law of Sines	Complete Hwk page pgs 9-10 & 4 problems from the <u>Review Packet</u>	<u>video</u> Corrections from this <u>packet</u> & <u>solutions</u> ; Do take home quiz and <u>Salmon Packet</u> : Part 12.3#6,8,12
	Altitude to hypotenu se laws <u>notes</u>	Complete <u>Pink 1/2 Sheet</u> and do 4 more probs form the <u>Review Packet</u>	

Expert Proble ms <u>Signu p</u>	Pre-CRT final review and	Semester <u>Learning</u> <u>Targets</u> <u>chap by chap review</u>
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Sem Rev	<u>solution</u> <u>s</u>	
Sem Rev (Go outsid e?)	<u>Semeste</u> <u>r Review</u> <u>Packet</u> with answers <u>Formula</u> <u>s</u> sheet	Optional Handwritten Prefinal available