Humanities Class Homework:

Question: Which god or goddess is your favorite? Which one do you want to further explore?

Math Class Homework:

Find the slopes of the following equations:

- 1. y = 5x 10
- 2. y = -6x + 5
- 3. y = 100x + 200
- 4. y = -200x 2

Find the zeroes of the following equations:

- 1. y = (x+4)(x+5)
 - a. x = -4, -5
- 2. y = (x-10)(x+2)
- 3. y = (x-3)(x+2)
 - a. x = 3, -2

Chemistry Class Homework

Question: Identify 3 types gases that cause harm to our atmosphere (eg. greenhouse gases). Briefly introduce one way to reduce the harmful effects caused by each of them.

Humanities Homework:

Research an interesting god / goddess story, and be prepared to tell it to the class.

Math Homework:

Use the quadratic formula in order to solve for the zeroes of the function, or explain why they don't exist.

1.
$$y = x^2 + 4x + 4$$

2.
$$y = 5x^2 - 20x + 1$$

3.
$$y = -2x^2+4$$

4.
$$y = 7x^2 - 49$$

Chemistry Homework:

Draw the Lewis Structures for two of the following molecules:

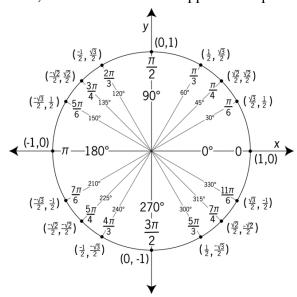
CO2, H2O2, CH4, NH3, O3, SO2

Humanities Homework

Research about a greek city (except athens) and who their main god is

Math Homework

Memorize the cosine and sine values for 30, 45, 60, 90, 180, 270 degrees. Also, download the BlueJ App for Computer Science Class tomorrow.



Chemistry Homework

Look over the key points, write a short paragraph about the points that you think you understand well and the points that still seems confusing to you.

Key points:

Atmosphere: Nitrogen / Oxygen / Argon (noble gases)

Water

Lewis Structure / covalent bonds

Ionic bonds

Polarity

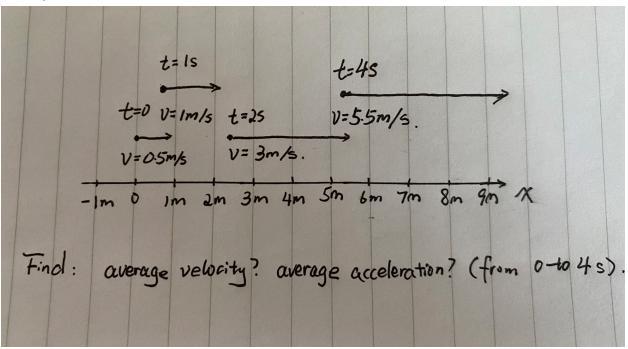
IMFs

Computer Science Homework

Write the code that would explain whether or not a created number is larger, equal to, or less than 100.

Physics Homework

Find the average velocity (v) and average acceleration (a) in the following motion map (from t=0 to t=4s)



HO HOMEWORK

Humanities Homework:

Question: How did WW1 connect to WW2?

Math Homework:

Simplify the expressions:

- 1. n!(n-1)! / (n-2)! n
- 2. n(n-1)!/(n)!
- 3. (n-2)!(n-3)! / (n-4)!(n-5)!

Chemistry Homework:

Choose a type of bonding, write about its main properties

Humanities Homework:

Research about a significant battle during the WWII.

Math Homework:

1. Write the sine equation of the graph shifted 2 units to the right, 5 units up, and has a frequency of 5

$$y = \frac{5 + \sin(5(x-2))}{2}$$

2. Write the cosine equation that has an amplitude of 10 and is shifted up 5

$$y = 10\cos(x) + 5$$

3. Write the tangent equation that has been shifted down 12 units.

$$y = \tan(x) - 12$$

Chemistry Homework:

Research about Fe3O4 and write a chemical equation for its composition

Math Homework:

Solve the following system of equations:

1.
$$x + 2y = 8$$

$$2x-2y=1$$

2.
$$3x + 4y = 12$$

$$3x - 4y = -2$$

Chemistry Homework:

If 36 grams of H2O is formed from a reaction in which hydrogen gas is burned in oxygen to form water. How many grams of oxygen participated in the reaction?

Humanities Homework:

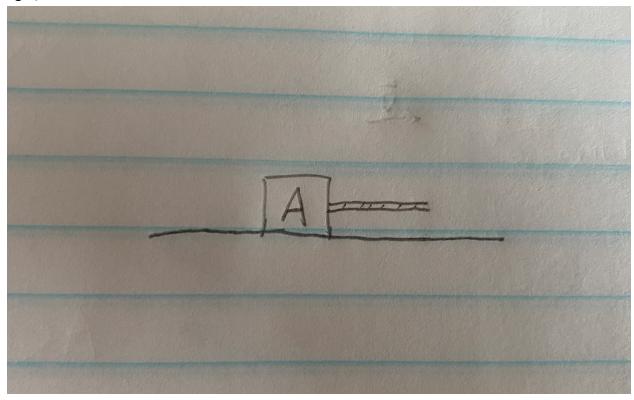
How did Germany split, and why?

Computer Science Homework:

Write the code in order to remove all names that have the letter "j".

Physics Homework:

Draw a free-body diagram for block A in the picture below (the rope is pulling the block to the right)



Computer Science Homework

List the similarities and differences of for loops vs foreach loops.

Physics Homework

Check out the slide for key points, write a few sentences / short paragraph about which points you think you understand well and which ones you think are still confusing to you.

Humanities Homework

HW: What is your favorite post war technology?

Math Homework

$$1/y = 2x + 11$$
, $y = -7x + 2$
 $2/y = 3x - 5$, $y = 4$

Chemistry Homework

How many grams of water is needed to dilute 50g of 98% Sulphuric Acid (H2SO4) to a solution with mass fraction of 20%?

Humanities Homework:

Homework: Come up with an example of a simple sentence and a compound sentence

Math Homework:

1.
$$y = x^2 + 1$$

$$y = 3x + 3$$

2.
$$y = x^2 - 7$$

$$y = 2x - 2$$

Chemistry Homework:

Identify the Acid - Base pairs in the following equations:

No Homework

Humanities Homework:

HW: pg 109-110 #1-3 of powerpoint link from yesterday. (Check Email)

Computer Science:

Write the code to print numbers from 1-10

Chemistry Homework:

(optional) With two switches, one battery (power supply), green and red lightbulbs, and some wires, design a circuit so that when one switch is turned on, red bulb lights up, while if the other is pressed down, the green bulb lights up.