●

Everyday when you arrive I want you to do two things:

1. Before starting the warm up, please let me know about any homework problem in which you had trouble with by filling out the *HW TALLY* on the side board. (or just get help within your group)

2. Then start the warm up (if any)........

Warm Up - is a handout $y = mx + b$

- Pick it up at the front table●

1. _____ $x \cdot x^2 \cdot x^4 =$ _____
2. _____ $x \cdot x \cdot x^2 =$ _____
3. _____ $(3x)(4x) =$ _____
4. _____ $(3x)(-4x) =$ _____
5. _____ $(3x^2)(6x^2) =$ _____
6. _____ $(-2x)(-9x^3) =$ _____
7. _____ $(12x)(3x^2y^2) =$ _____
8. _____ $(6x)(\frac{1}{6}x^3) =$ ___ x^4 ___
9. _____ $(3xy)(2xy) =$ _____
10. _____ $(-\frac{3}{5}x)(15xy) =$ ___ $-9x^2y$ ___
11. _____ $(2x)(-3x)(-6y^2) =$ ___ $36x^2y^2$ ___

$$\left(-\frac{3}{5}x\right)\left(15xy\right)$$

$$-\frac{3}{5} \cdot x \cdot 15 \cdot x \cdot y$$

$$-\frac{3}{15} \cdot \overset{3}{\cancel{15}} \cdot x \cdot x^1 \cdot y$$

$$-9x^2y$$

$$\overset{1}{\cancel{6}} \cdot \frac{1}{\cancel{6}_1} \; x^1 \cdot x^3$$

Answer Bank

L. $18x^4$	N. $-2x^4y^2$	E. $18x^2y^6$	T. $36x^2y^2$	V. x^2y^2
A. $-12x^2$	G. x^2y^3	P. $36x^3y^2$	R. $12x^2$	
F. x^7	O. x^4	S. $6x^2y^2$	I. $-9x^2y$	

12. _____ $(-3x^2)(3y) =$ _____
13. _____ $(-xy)(-xy) =$ _____
14. _____ $(-3xy)(-6xy^5) =$ _____
15. _____ $(9)(-x^2y) =$ _____
16. _____ $(-\frac{1}{3}x^2y)(3x^2y)(2) =$ ___ $-2x^4y^2$ ___
17. _____ $(-3x^2)(-3)(4y^2) =$ _____
18. _____ $(-2x)(-9)(xy^6) =$ _____
19. _____ $(-xy)(-xy^2) =$ _____
20. _____ $(\frac{2}{3})(9x^2)(3y^6) =$ _____
21. _____ $(2x)(2x)(3) =$ _____
22. _____ $(\frac{1}{2}x)(6x)(2y^2) =$ _____

$$\left(\frac{2}{3}\right)\left(9x^2\right)\left(3y^6\right)$$

If absent from my class:

1. Before you get back, always check my blog for details, etc

2. Always check the **Class Papers** Basket for...

3. Ask for the solutions to the previously scored assignment so you can check your work, etc.

Don't

$$\frac{\frac{2}{3}n = \frac{6}{\frac{2}{3}}}{\frac{2}{3}}$$

Yes ☺

$$(3)\frac{2}{3}n = 6(3)$$

$$2n = 18$$

$$\frac{\frac{2}{3}n = \frac{6}{7} + \frac{1}{n}}{\frac{2}{3} \quad \frac{2}{3} \quad 2/3}$$

$$-3x + 2 = 5x + 7$$
$$+3x \qquad\qquad +3x$$

$$\frac{2}{-7} = 8x + 7 \atop -7$$

$$\frac{-5}{8} = \frac{8x}{8}$$

$$-\frac{5}{8} = x$$

$$\boxed{x = \frac{-5}{8}}$$

Equations with the unknown on both sides.

An equation is like a set of scales. To keep it balanced, whatever you do to one side you must do to the other.

$$3(2) - 3x(3) = x(3) + \frac{2}{3}(3) \qquad\qquad 2 - 3x = x + \frac{2}{3}$$

$$6 - 9x = 3x + 2$$
$$+9x \qquad +9x$$

$$\frac{6}{-2} = 12x + \frac{2}{-2}$$

$$4 = 12x$$

divide by 12

$$x = \frac{4}{12}\left(\frac{1}{3}\right)$$

$$3(30)\frac{3}{110} = \frac{30(x+1)}{81}$$

$$9 = 10(x+1)$$

$$9 = 10x + 10$$
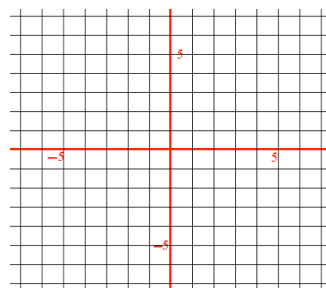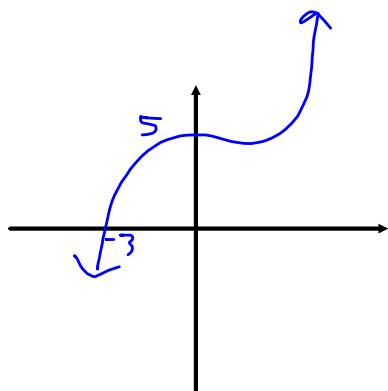$$\underline{-10} \qquad \underline{-10}$$

$$-1 = 10x$$

$$\boxed{x = \frac{-1}{10}}$$

Algebra 2 is about studying many types of functions because there are so many different types of behavior in the world.
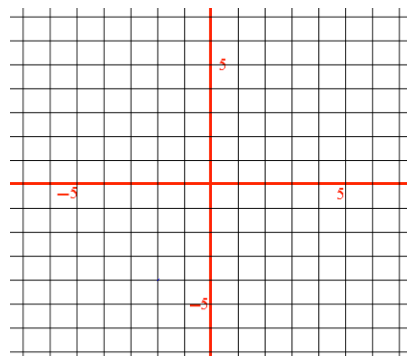
Occasionally you'll be asked to either

==sketch== a picture or ==graph== a function.

There is a big difference between
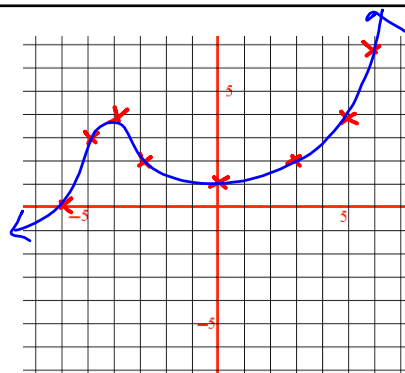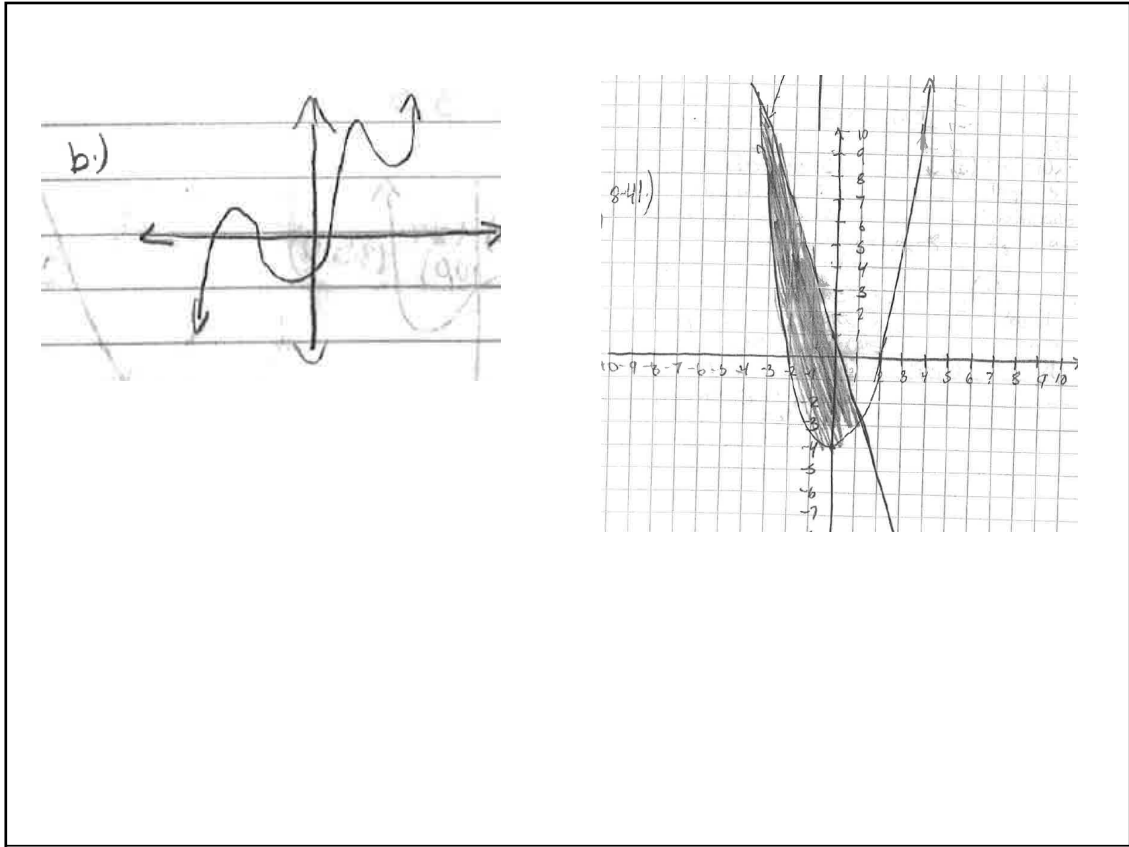
a **sketch** and a **graph**

Graphs

- Plot points accurately
- Graph Paper
- Don't make tiny
- label key points

Graphs

- Plot points accurately
- Graph Paper
- Don't make tiny
- label key points

b.)

Syllabus-Part 2

From Yesterday - ANY
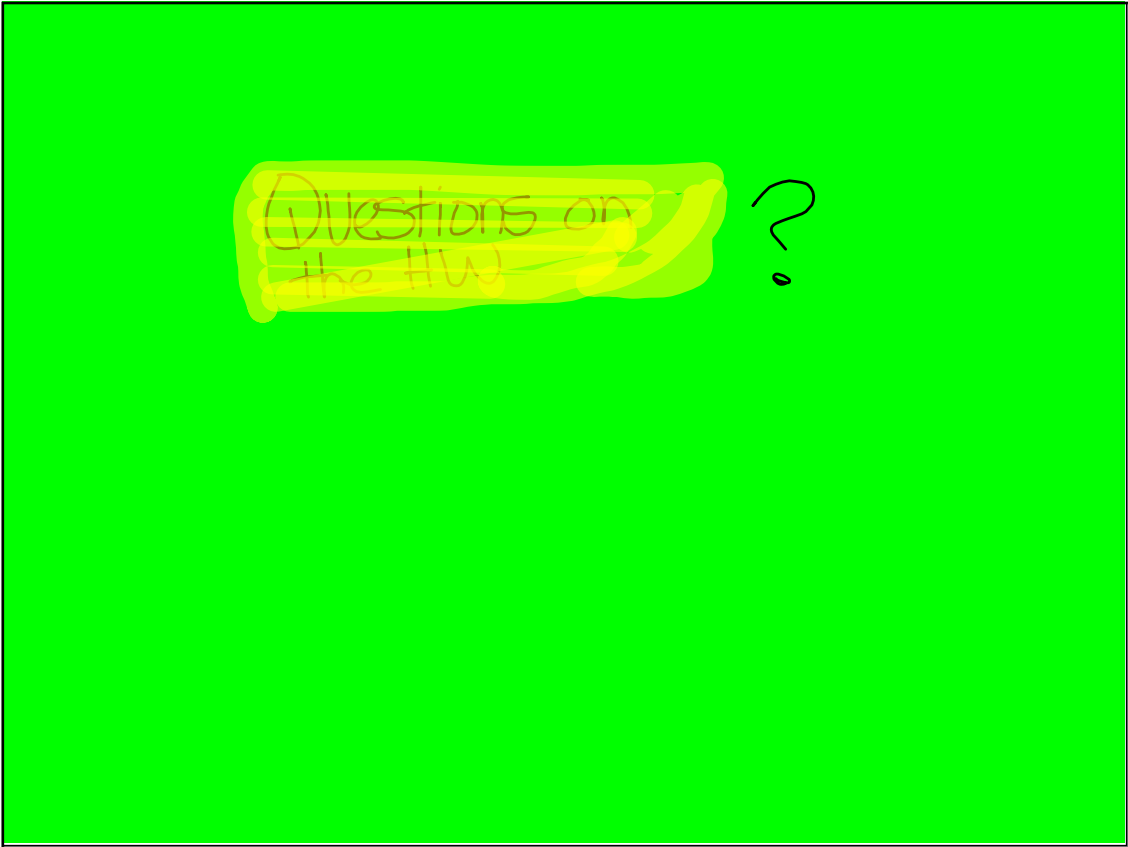Questions on
Supplies ???
or anything else

Partner Warm Up

Pull out your syllabus.

Look at sheet two on **Grading Framework**

Put Syllabus
away.
We'll look at the very last sheet
tomorrow.

Questions on the HW ?

Assignment #1
Algebra 2A

Key

Name. _____ Always first and last   Period

1. The carnival charges $15 for admissions and $2 per ride. ($x$ = number of rides, y = cost)

Write an equation for the situation.

$y = 15 + 2x$ **or** $y = 2x + 15$

Fill in the table.

x	y
0	15
1	17
2	19
3	21

4. Which of the following expressions are equivalent to 10
Circle yes or no.

$(-8) + 6(8 - 5)$ (yes)/ no
10

$3 + 6(5 + 4) \div 3 - 7$ yes /(no)
$3 + 54 \div 3 - 7$
$3 + 18 - 7 = 14$

$(-4)(-3) \div 6 - 2[5 - (-8) + (6 \div 2)]$ yes /(no)
$12 \div 6 - 2[13 + 3]$
$= 2 - 2[16]$
$= 2 - 32 \quad = -30$

2. Which equations are equivalent to $10 = 4x$? Circle yes or no.

a. $8x = 20$ yes / no

b. $12 = 4x + 2$ yes / no

c. $12 = 6x$ yes / no

5. Solve for x

$$3x + 4 = 10$$
$$ -3 \quad -3$$
$$3x = 6$$
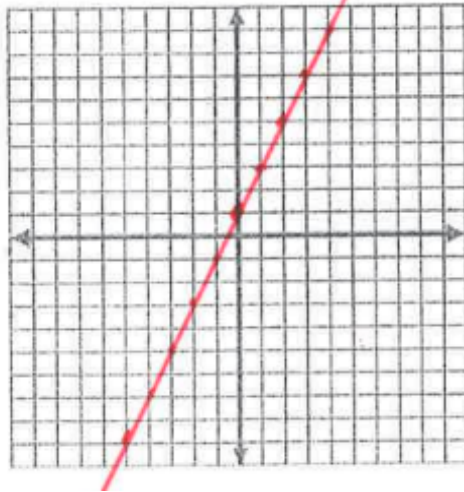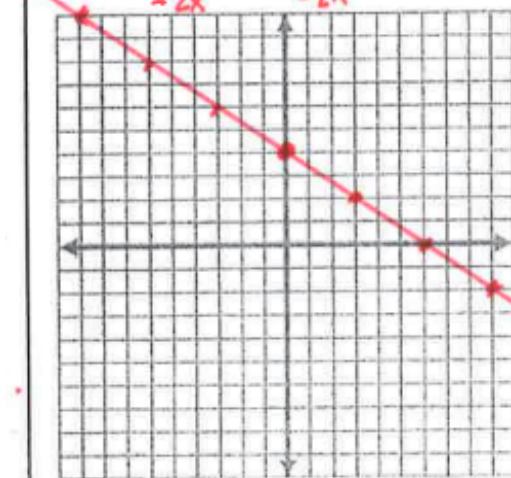$$x = 2$$

$$2 + \frac{1}{2}x = 4$$
$$-2 \qquad -2$$
$$\frac{1}{2}x = 2$$
multiply by 2
$$x = 4$$

3. Graph: $y = 2x + 1$

slope is
2 or $\frac{2}{1}$

should be
using a
ruler!

6. Graph: $2x + 3y = 12$
   $-2x$ $-2x$

Solve for y

$3y = -2x + 12$

$y = -\frac{2}{3}x + 4$

↑
y-int.

7. The admission for the class to go to Michigan's Adventure is $24 per person. The cost of the busses for the entire 9th grade will be $450.
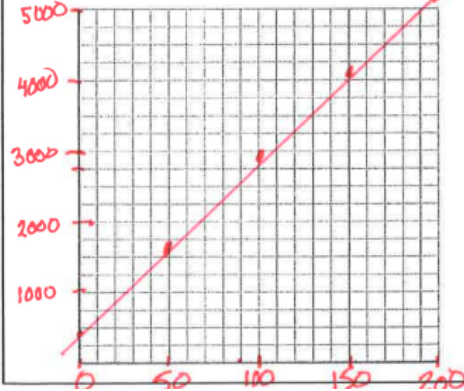
a. Write an equation or rule that represents the function.

$$y = 450 + 24x \quad \text{or} \quad y = 24x + 450$$
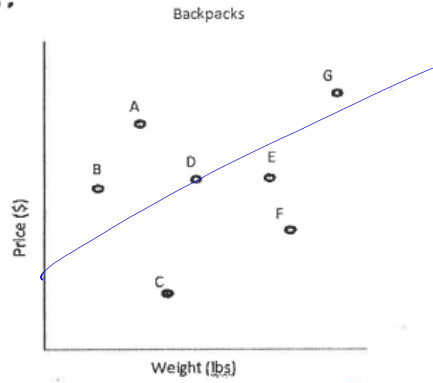
b. Make a table that show how much a trip will cost for 50 students, 100 students, 150 students, and 200 students.

Students	50	100	150	200
Cost ($)	1650	2850	4050	5250

c. Graph.

8.

Backpacks — Price ($) vs Weight (lbs)

a. Which point shows the heaviest bag? G

b. Which point shows the cheapest bag? C

c. Which bag is the best value? F ? C ?

Why? Low price to weight ratio

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today (but no later than tomorrow)

give yourself a completion score out of 10 on last night's HW.

10

Your homework grade will consist of two components:

A self reported HW Proficiency grade (using the rubric below) recorded on the other side of this sheet AND

a random homework quality grade given by Mr. Cedarlund.

Starting tomorrow:

Evaluate your HW
using the HW Proficiency Rubric

Correcting   vs   Checking For Learning

How to evaluate and score your HW.

Homework Proficiency Rubric

Homework recording sheet

---

period ___   first/last name _____
Algebra 2 – HW Recording Sheet ----- for _____**1**_____

- ✓ When you arrive in class, your name should already be in ink on the top of your paper, in ink. The assignment and your period should also be written down.
- ✓ Once class starts, you can only add to your homework in ink (in a color that stands out from your main work.)
- ✓ Before the conclusion of HW checking, your score must be written in INK in two places:
    1) In the upper right hand corner on your actual HW.
    2) and below in the *HW Proficiency* column below.   (*Write "0" if you did not do your HW*).

- ✓ This sheet and all completed assignments for a chapter must be brought to class everyday and kept next to this sheet. If a random HW Quality check is done and this sheet is not in class, then the assumption is that you have not done any assignments up to that point.

Day *(Mon, Tu, etc)*	Date Assigned	● **HW Description** *Reminder: If you are absent, you are required to check the class website for details before you return.*	HW Proficiency Score from 0 to 10	**Explain Special situations** "absent on ___"
W	9/6	Assign. #1 (WS)		
Th	9/7			

9 or 10
Completed on time, before class starts.

Required Qualities

A. The "starting" expression or information is written down before you work on a problem. *(unless the problem is lengthy or in paragraph form. Ideally you should skip a line before the next problem.*

B. Appropriate, detailed steps, are shown in all problems (when there is a process). In general you should skip a line after your work, before starting the next problem.

C. Good notation is used.
D. Work is neat and organized.
E. You skip a line before the next problem.

Note: *Not all answers have to be correct to get this score but it is obvious, when looking at your paper as class starts, that your paper generally has all of the qualities above.*

Note: *You can still get this score if you have a question you need help with (maybe two) provided you use the HW Tally and all problems have the same*

7 or 8

Completed on time, before class starts and about...

80% of the assigned work is done with the required qualities

5 or 6

Completed on time, before class starts and about...

60% of the assigned work is done with the required qualities

3 or 4	**1 or 2**
Completed on time, before class starts and about...	Completed on time, before class starts and about...
40% of the assigned work is done with the required qualities	**20%** of the assigned work is done with the required qualities

0

If the assignment is not completed, the write "0" on the recording sheet at the time of checking.

BUT you eventually do it before the end of the chapter, then subtract 4 from what would have been your HW score. Write this reduced score adjacent to the "0". Cross out the "0" recorded earlier but not erase the "0".

You may do this on one assignment per unit/chapter

Homework Help - Demo

Daily Assignments

Algebra 2A Assignments
Algebra 2B Assignments
IB-Math Studies Assignments
Uncategorized

Course Information

Welcome
About Mr. Cedarlund
Contact Me
ALGEBRA 2 Information
IB-Math Class/Project Information
IB Studies Exam Prep Resources
Mock Exams
Algebra 1 Information
Check Your Grade
FST Information

Laptop or Smart Phone

ALGEBRA 2 Information

Link for : **CPM** HW Help **(for Core Connections Algebra 2)**

Extra Practice for Each Chapter
Ch 1 Extra Practice

Ch 2 Extra Practice

Ch 3 Extra Practice

Ch 4 Extra Practice

Ch 5 Extra Practice

Ch 6 Extra Practice

Ch 7 Extra Practice

Ch 8 Extra Practice

Link for : CPM TI-84 Graphing Calculator Instructions

Goal for the remainder of class: take notes

Review factoring

$12 \rightarrow 6 \cdot 2$

$2x + 10 \rightarrow 2(x+5)$

$6m^3 - 3m \rightarrow 3m(2m^2 - 1)$

factoring quadratic trinomials

there are a few methods, one of which is guess and check

I would like you to be able to use the "Box/Diamond" method.

$n^2 + 2n - 3$

$\downarrow$

$(\cancel{n - 3})(\cancel{n + 1})$

$(n + 3)(n - 1)$

$3n$
$-n$

Easy

Any method works

$$2n^2 + 9n + 4$$

$$(2n + 1)(n + 4) \smile$$

●

	$2n$	1
n	FIRST $2n^2$	n
4	$8n$	LAST 4

First ● Last

$8n^2$ ~~crossed out~~

$9n$ → middle

Poss●b●l●ies

$8n \cdot n$
$4n \cdot 2n$

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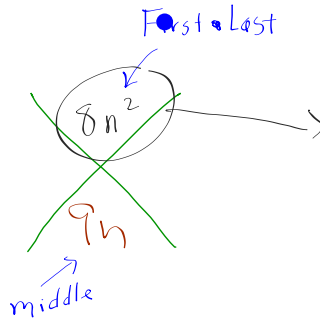
another example

$$10n^2 + 13n - 3$$

$$(5n - 1)(2n + 3)$$

	$5n$	-1
$2n$	$10n^2$	$-2n$
3	$15n$	-3

First ● Last

$-30n^2$ ~~crossed out~~

$13n$
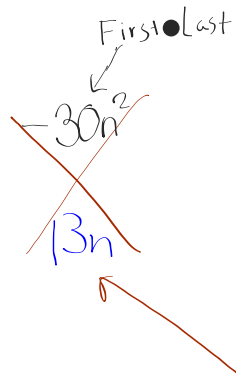
$15n + -2n$

Possib

$30n \cdot -n$
$-30n \cdot n$
$15n \cdot -2n$
$-15n \cdot 2n$
$5n \cdot -3n$
$-5n \cdot 3n$

B.B.

How to be addicted to your phone !
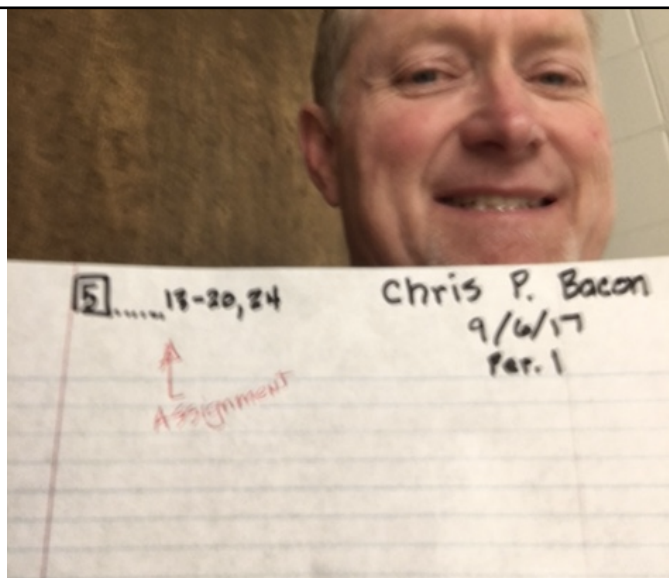
Assignment:

1. Get your supplies

2. Do the first textbook assignment......

1 ..... 4, 7ad, 8, 18, 21

↑

Graph paper

    1.... 4, 7ad, 8, 18, 21