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

- Pick it up at the front table.

$y = mx + b$

1. _____ $x \cdot x^2 \cdot x^4 =$ x^7
2. _____ $x \cdot x \cdot x^2 =$ x^4
3. _____ $(3x)(4x) =$ $12x^2$
4. _____ $(3x)(-4x) =$ $-12x^2$
5. _____ $(3x^2)(6x^2) =$ $18x^4$
6. _____ $(-2x)(-9x^3) =$ $18x^4$
7. _____ $(12x)(3x^2y^2) =$ _____
8. _____ $(6x)(\frac{1}{6}x^3) =$ _____
9. _____ $(3xy)(2xy) =$ _____
10. _____ $(-\frac{3}{5}x)(15xy) =$ $-9x^2y$
11. _____ $(2x)(-3x)(-6y^2) =$ $36x^2y^2$

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

$=$

$\frac{15}{3} \cdot \frac{5}{1}$

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. _____ $(-\frac{1}{3}x^2y)(3x^2y)(2) =$ _____
17. _____ $(-3x^2)(-3)(4y^2) =$ _____
18. _____ $(-2x)(-9)(xy^6) =$ _____
19. _____ $(-xy)(-xy^2) =$ _____
20. _____ $(\frac{2}{3})(9x^2)(3y^6) =$ $18x^2y^6$
21. _____ $(2x)(2x)(3) =$ _____
22. _____ $(\frac{1}{2}x)(6x)(2y^2) =$ _____

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

$18x^2y^2$

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

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

Yes

$$\frac{(3)}{1}\cdot\frac{2}{3}n = 6(3)$$

$$2n = 18$$

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

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

$+3x \quad +3x$

$2 = 8x + 7$

$-7 \quad -7$

$-5 = 8x$

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

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

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.

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

$6 - 9x = 3x + 2$

$+9x \quad +9x$

$6 = 12x + 2$

$-2 \quad -2$

$4 = 12x$

$\frac{4}{12} = \frac{12x}{12}$

$x = \frac{4}{12} = \frac{1}{3}$

$x = \frac{1}{3}$

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

$+3x \quad 3x$

$\frac{3}{10} = \frac{x+1}{3}$

$9 = 10(x+1)$

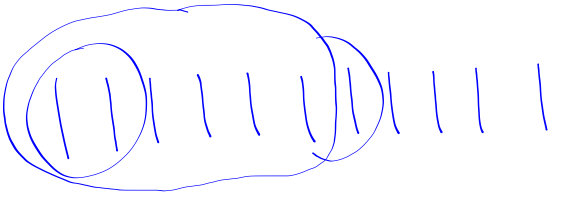
$9 = 10x + 10$

$-10 \quad -10$

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

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

Algebra 2 is about studying many types of functions because there are so many different types of behavior in the world.

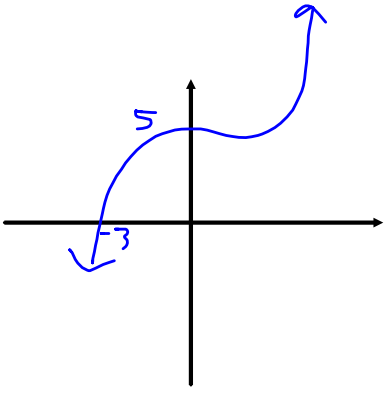


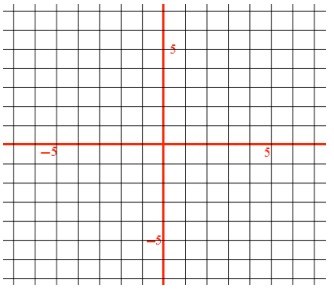
Occasionally you'll be asked to either

sketch a picture or **graph** a function.

There is a big difference between

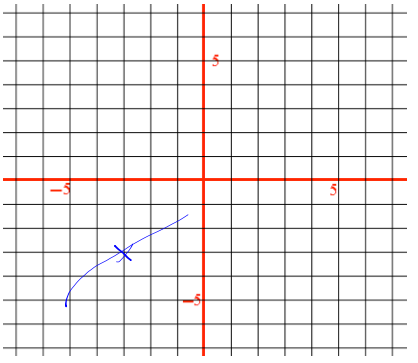
a **sketch** and a **graph**





Graphs

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



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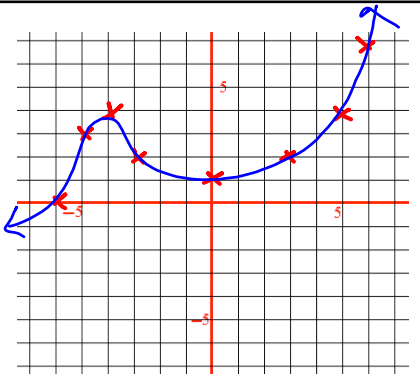
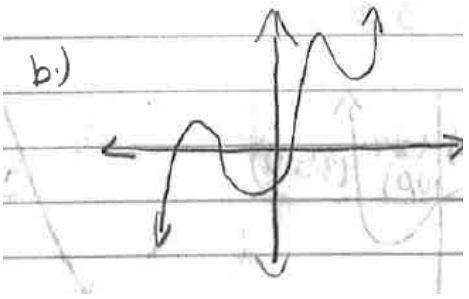
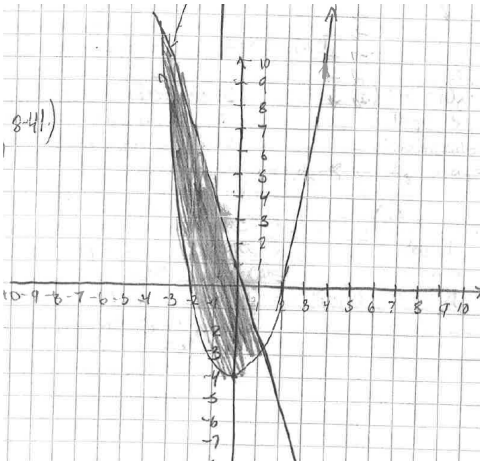






Syllabus - Part 2

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

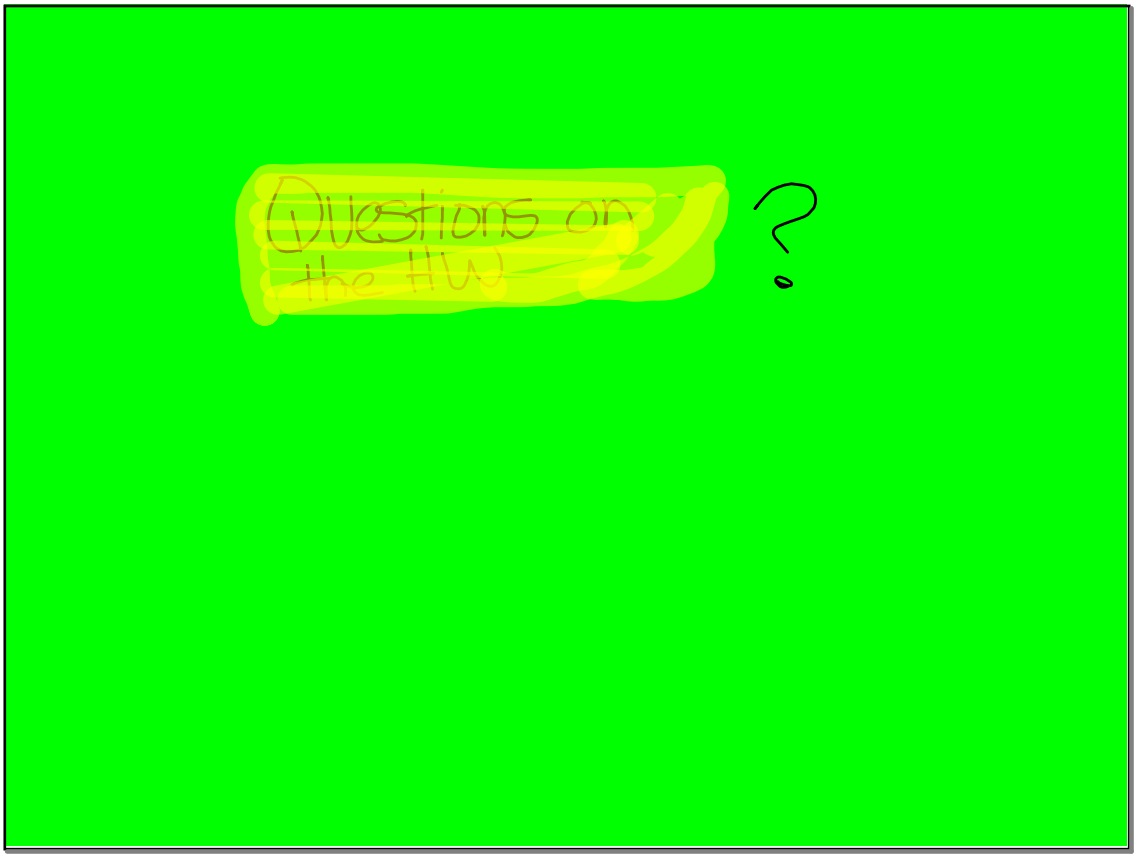
Partner Warm Up

Pull out your syllabus.

Look at sheet two on **Grading Framework**

Put Syllabus away.

Will look at the very last sheet tomorrow.



Assignment #1 Key
Algebra 2A

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 1
Circle yes or no.

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

$3 + 6(5 + 4) \div 3 - 7$ yes / no

$3 + 54 \div 3 - 7$

$3 + 18 - 7 = 14$

$(-4)(-3) \div 6 - 2[5 - (-8) + (6 \div 2)]$ yes / no

$12 \div 6 - 2[13 + 3]$

$= 2 - 2[16]$

$= 2 - 32 = -30$

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

a. $8x = 20$ yes / no

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

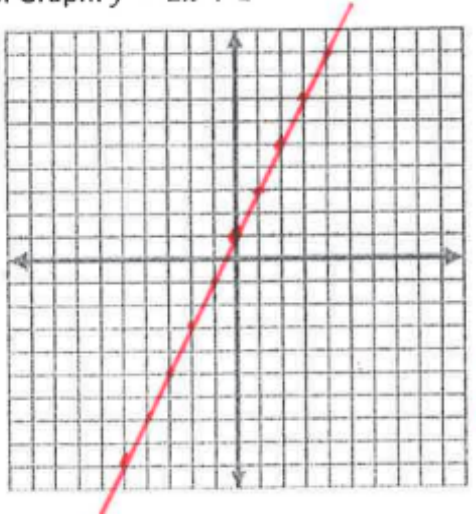
c. $12 = 6x$ yes / no

5. Solve for x

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

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

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



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

should be using a ruler!

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

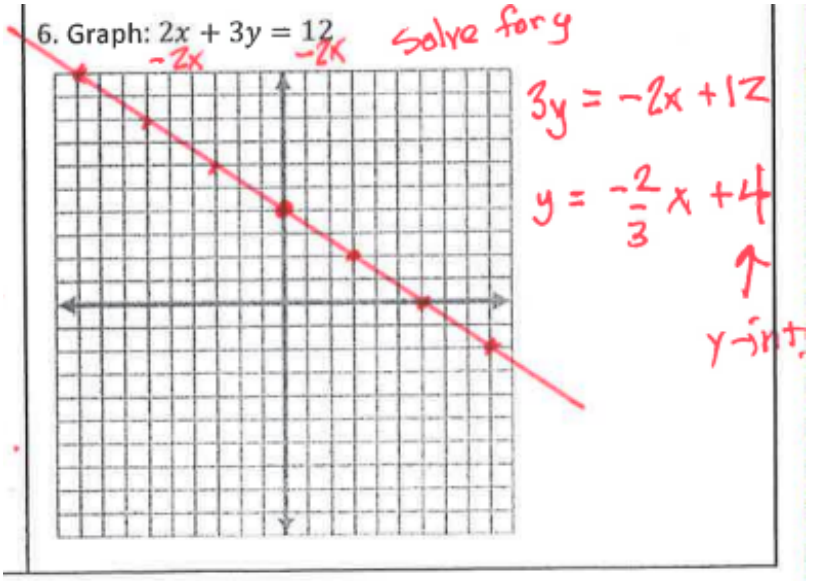
$-2x$ $-2x$

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.*

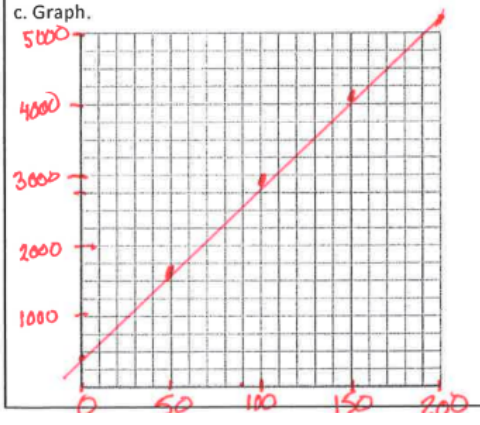
a. Write an equation or rule that represents the function.

$y = 450 + 24x$ or $y = 24x + 450$

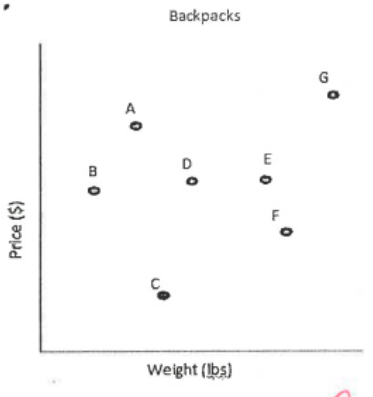
b. Make a table that show how much a trip will cost for 50 students, 100 students, 150 students, and 200 students.

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

c. Graph.



8.



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

today (but no later than tomorrow)

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

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	9/5	Assign #1 (WS)	0	7
Th	/		9	
			4	

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	5 or 6
Completed on time, before class starts and about...	Completed on time, before class starts and about...
80% of the assigned work is done with the required qualities	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

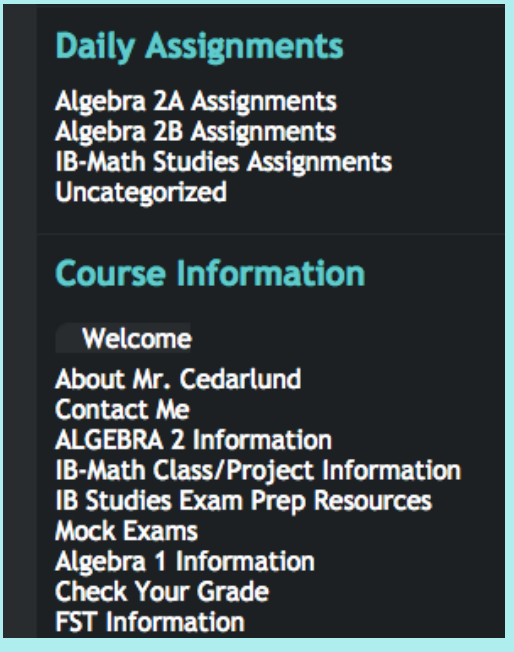
0

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



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

$12 \rightarrow 6 \cdot 2$

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

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

$3m(2m^2 - 1)$

$m($

$2n^2 - 7n + 12$ ( )( )

$n^2 - 4n + 5$

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.

$n^2 + 2n - 3$

$\downarrow$

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

check

$n^2 - 3n + n - 3$

Easy

Any method works

$2n^2 + 9n + 4$

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

	2n	1
n	First $2n^2$	n
4	$8n$	last 4

first x last

$8n^2$

$9n$ middle

possibilities

$8n \cdot n$

$4n \cdot 2n$

another example

$10n^2 + 13n - 3$

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

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

$10n^2 \cdot -3$

$-30n^2$

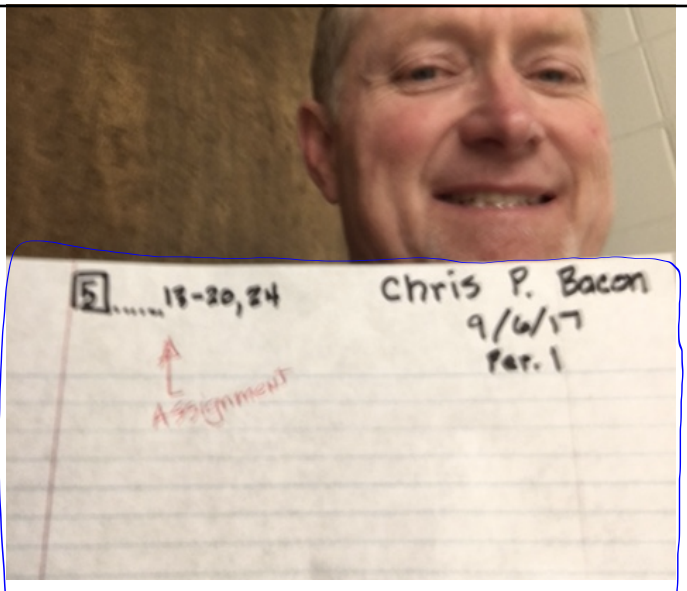
$13n$

Possibilities

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

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