Algebra 2 – Day 1

Assignment #1

Name _____ Per___

1. The Website for this Class

Two ways to navigate to find the class website.

    a) There is a link to the class website on the Sheldon homepage. (https://shs.4j.lane.edu/). Go to the Sheldon High School Website and scroll down to the **Staff Directory**. Then scroll down to the Math Teachers and find Mr. Cedarlund. Open up the website.

    b) Or you can Navigate to *http://blogs.4j.lane.edu/cedarlund/*

Now go to the website:

    A. In the upper right corner, look for "Assignments". Select "Algebra 2 Assignments". "Click to expand". This location is where I post daily assignments. *If absent, always check it before you get back to class.* If a learning check quiz is given, it will be posted here as well.

    Now scroll to the bottom past December. 20th and write down the name of the city, outside the United States, where Mr. Cedarlund lived during the first Gulf War.

            _____

    B. Based on what you see, what other courses does Mr. Cedarlund currently teach at Sheldon High School?

        _____

    C. Next, navigate back to the home page. Further down on the right, select "Algebra 2 Information". Check it out and notice the HW help and other links for help. There are also Graphing Calculator help sites as well.

    D. Put a happy face here if you accomplished the above. ____ If not, I will give you one extra day to turn in this assignment. Normally, homework is due the very next day after it is assigned.

2.   Now complete the rest of your assignment which is part of the packet. It is a review of some Algebra skills.

    Know that, on just about any day, you can come in before school as early as 7:45 am to get help. On days where you have many questions, you should be coming in for help. The most successful students do this.

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

a) Write an equation for the situation.

_____

b) Fill in the table.

x	y
2	
5	
0	
25	

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

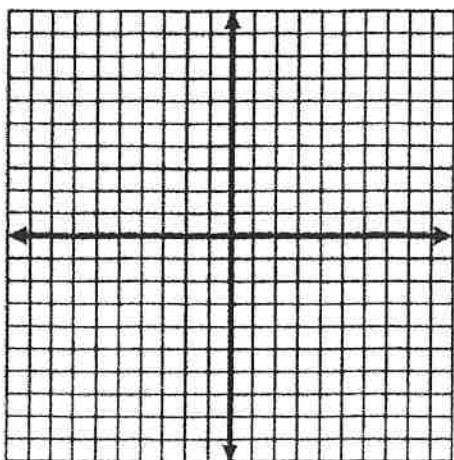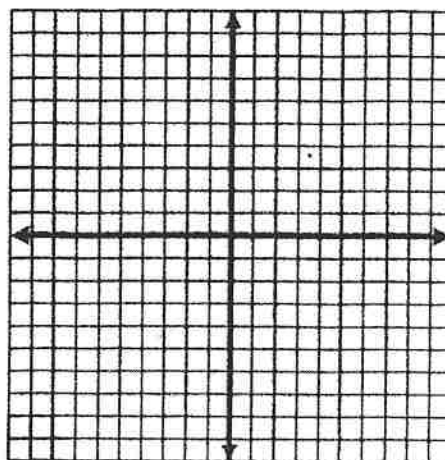③ Graph: $y = 2x + 1$ (Use your knowledge of $y = mx + b$ or you'll have to make a table.)

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

✱ $(-8) + 6(8 - 5)$ yes / no

✱ $3 + 6(5 + 4) \div 3 - 7$ yes / no

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

⑤ Solve for x

a)
$$3x + 4 = 10$$

b)
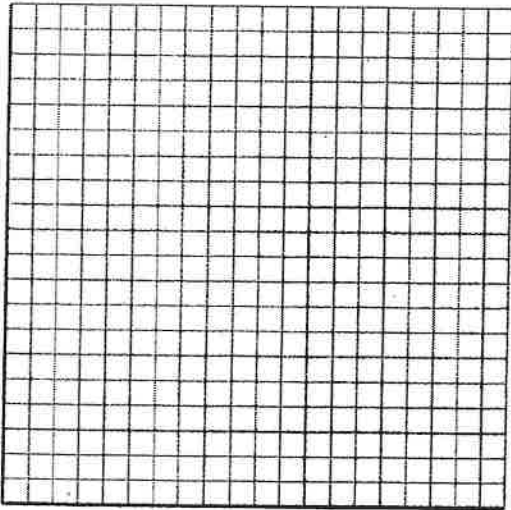$$2 + \frac{1}{2}x = 4$$

⑥ Graph: $2x + 3y = 12$

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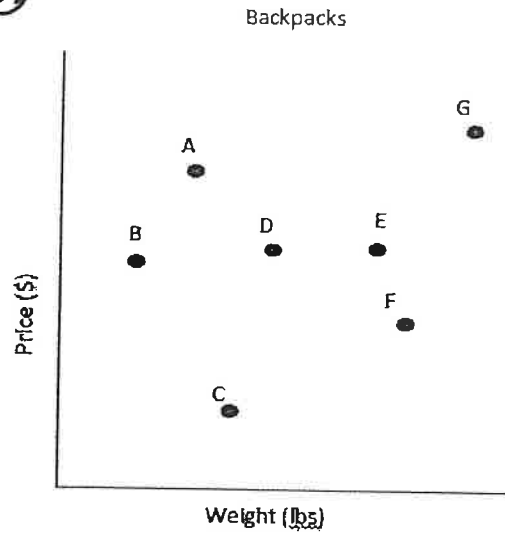
a. Write an equation or rule that represents the function.

_____

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

c. Graph. the relationship

8.

Backpacks

Price ($)

Weight (lbs)

a. Which point shows the heaviest bag? _____

b. Which point shows the cheapest bag? _____

c. Which bag is the best value? _____

Why? _____

_____

_____

⑨ Discuss the graphing Calculator requirement with your parents (see the last sheet of this packet)

⑩ Most important - Get a bound spiral notebook !! and another separate folder for other papers and handouts.

FYI - Normally your assignments will be out of your textbook.

Graphing Calculators in Sheldon High School Math Classes.

Starting in Algebra 2, students will use graphing calculators extensively as a learning tool during daily in lessons, on exams, and on homework assignments.

Each student is responsible for providing her/his own. If curriculum trends hold, the same calculator can be used for their entire high school experience and perhaps in college. In addition, they can also be used in high school science classes (Chemistry, Physics, and Biology).

You will need a graphing calculator starting the very first week of Algebra 2 so plan ahead.

Buying Advice:
Sheldon High School teachers use and demonstrate with Texas Instrument Graphing Calculators. We have found that it is much less confusing students have the same brand. We recommend that you obtain a new or used model of any of the following types:

- TI-83 Plus
- TI-84 Plus or T_-84 Plus Silver
- There are newer more robust models like the TI-Nspire, even more expensive. If you go this route be sure to buy the TI-84 insert.

Graphing Calculators are expensive, but you do not have to buy a new one. Using Ebay and Craigsilist can be a great way to pick one up for less than $50, perhaps even $25.

Things to Know:
- ✓ A graphing calculator is not just a computational tool. They help students visualize and learn ideas both math and science at a deeper level.
- ✓ Students will be expected to be fluent with using graphing calculators on most exams starting in Algebra 2. This only happens with regular use in the classroom and on assignments.
- ✓ Graphing calculators are permitted or even required on many college entrance exams including the SAT and ACT.