Homework - Monday (May 13, 2019)

Solve the following problems without a calculator. You \underline{MUST} show your work. NO WORK = NO CREDIT.

1. Alicia bought fabric from a fabric store on 2 different occasions. The data from her purchases is recorded below.

yards of fabric	total cost
4.5	\$9.45
2.2	\$4.62

What is the cost per yard of fabric?

2. Write the equation in y = mx + b form of the line with a slope of -3 which passes through (-1,6).

- 1 3
- 3. Write the linear equation represented by the table.

x	-2	0	2	4
у	10	8	6	4

- 4. Suppose you can rent a car for either \$35 a day plus \$.40 per mile or for \$20 a day plus \$.55 per mile.
 - a. Write both equations for this scenario.
 - b. How many miles will it take for the cost to be the same?

Homework- Tuesday (May 14, 2019)

Solve the following problems without a calculator. You <u>MUST</u> show your work. **NO WORK = NO CREDIT.**

- 1. Write the equation of the line through points (0,-3) and (6,4).
- 2. A taxi company charges \$3 for the first mile and then \$1.75 for each mile traveled after that.
 - a What is the initial value?
 - b. What is the rate of change?
 - c. Write the equation of the line.

3. Simplify.

4. In 2001, the average price (in dollars) of a gallon of gas could be represented by the equation y=1.4x, where x represents the number of gallons of gas. The table below shows the average price of gas in 2009.

# of gallons	3	5	8	9
price	\$10.59	\$17.65	\$18.24	\$31.77

How much more is the average price of a gallon of gas in 2009 compared to 2001?

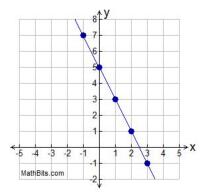
Homework - Wednesday (May 15, 2019)

Solve the following problems without a calculator. You \underline{MUST} show your work. NO WORK = NO CREDIT.

- 1. Turner's Computers has certain software packets on sale at 4 for \$20 with a limit of 4 at the sale price.

 Additional software is available at the regular price for \$10 each.
 - a. Write the expression you could use to find the cost of 6 software packets.
 - b. How much would 6 software packets cost?

2. Write the equation of the line.



3. Which equation has a slope of -1 and an x-intercept of 2? Show work for credit.

a.
$$x + y = 2$$

b.
$$x - y = 2$$

c.
$$x + y = -2$$

d.
$$x - y = -2$$

4. A linear equation y = -5x + 6 is modified so that the rate of change is tripled, but the y-intercept remains the same. Write the modified equation.

Homework - Thursday (May 16, 2019)

Solve the following problems without a calculator. You \underline{MUST} show your work. NO WORK = NO CREDIT.

1.

X	3	4	5	6
у	5	6	7	8

- a. What is the slope?
- b. What is the y-intercept?

2. The following ordered pairs (x,y) define the relationship Q. Is Q a function? Explain your answer.

$$\{(-2,1), (-1,2), (1,1), (2,-1)\}$$

3. The equation of Funcion A is y = 3x - 18. Function B contains the points in the table below. Compare the slopes and y - intercepts.

X	у
-3	-19
3	-17
9	-15

4. Which function has the greatest slope? Explain.

Function 1: y = x + 2

Function 2:

X	-2	0	2
y	-6	-3	0