Name: $\qquad$

## Homework - Monday (May 13, 2019)

Solve the following problems without a calculator. You $\underline{M U S T}$ 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?
3. Write the linear equation represented by the table.

| $x$ | -2 | 0 | 2 | 4 |
| :---: | :---: | :---: | :---: | :---: |
| $y$ | 10 | 8 | 6 | 4 |

2. Write the equation in $\mathrm{y}=\mathrm{mx}+\mathrm{b}$ form of the line with a slope of -3 which passes through $(-1,6)$.
3. 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 $\underline{M U S T}$ 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. In 2001, the average price (in dollars) of a gallon of gas could be represented by the equation $y=1.4 x$, 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 $\underline{M U S T}$ 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. 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. $x-y=-2$
3. Write the equation of the line.

4. A linear equation $y=-5 x+6$ 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 $M U S T$ show your work. NO WORK = NO CREDIT.


