Homework

$$M = \frac{y_3 - y_1}{x_3 - x_1}$$

$$\frac{1}{1} = \frac{3 - 4}{K - 7}$$

$$\frac{1}{1} = \frac{1}{1} = \frac{1}{1}$$

(K = 8)

$$\mathcal{G}$$
 State the slope perpendicular to $\widetilde{\mathcal{A}}_{y-1}$) = $3x+4$

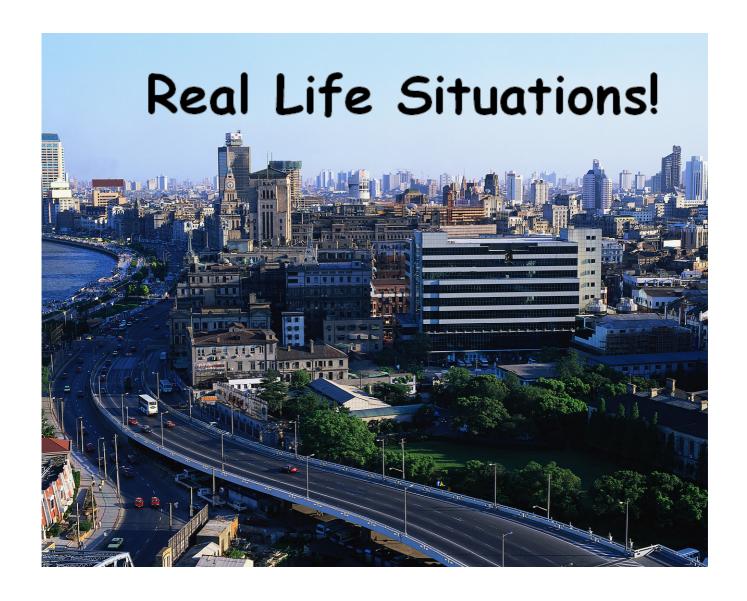
$$\frac{3y}{3} = \frac{3x + 6}{3}$$

$$y = (3)x + 3$$

$$m = \frac{3}{3}$$

$$M = \frac{3}{3}$$

$$M = \frac{9}{3}$$





Initial cost, base rate, initial fee, flat rate, sitting fee, starting cost etc.....



Number of kilometers, Number of hours, Number of pictures, etc....



Total Cost \$\$\$\$, Total Earned \$\$\$

Laura babysits on the weekend to make extra money. She charges \$15 as a flat rate and then \$5 every hour.

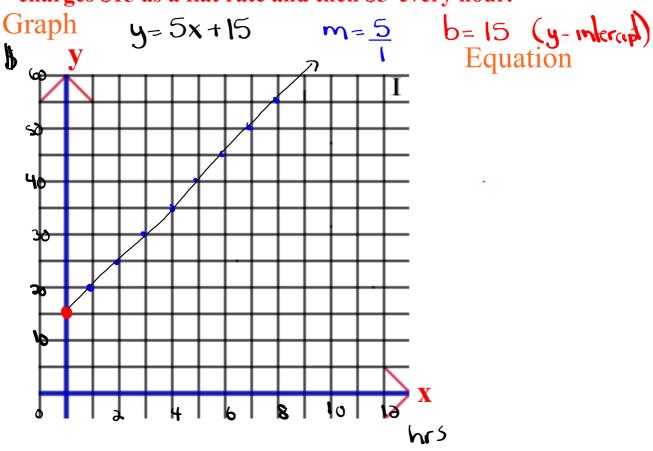
$$y = mx + b$$

$$y = 5x + 15$$

$$m = 5$$

 $b = 15$

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$$y = 5x + 15$$

(X=3)

(4=45)

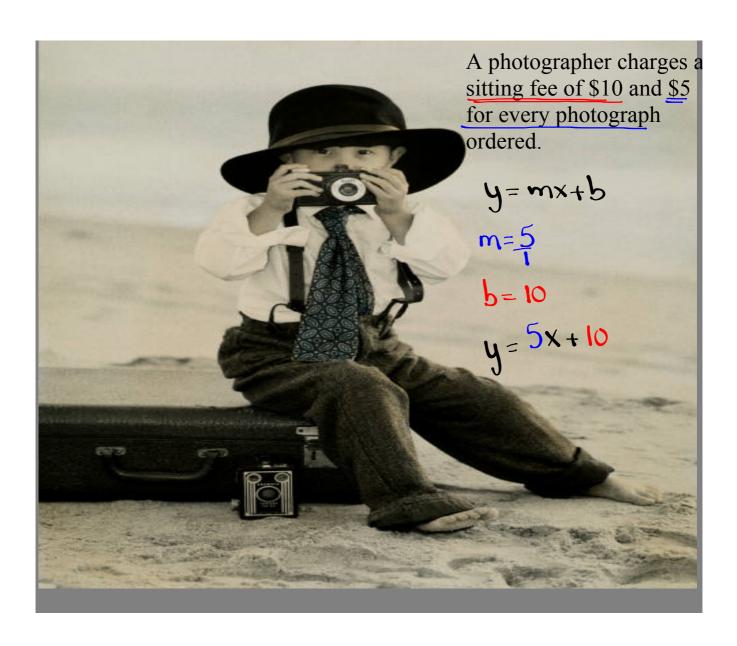
1. How much would it cost to have Laura babysit for 3 hours?

$$y = 5x + 15$$

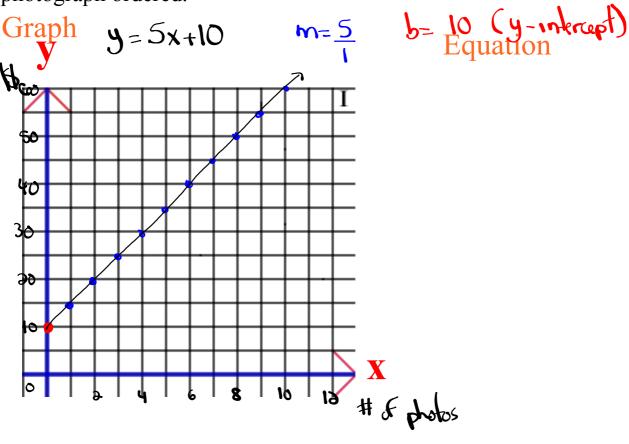
 $y = 5(3) + 15$
 $y = 15 + 15$
 $y = 30

2. How many hours could you have Laura babysit for if you had \$45?

$$y = 5x + 15$$
 $45 = 5x + 15$
 $45 - 15 = 5x$
 $30 = 5x$
 5
 $6h_{5} = x$



A photographer charges a sitting fee of \$10 and \$5 for every photograph ordered.



A photographer charges a sitting fee of \$10 and \$5 for every photograph ordered.

1. How many photographs could you get for \$35?

$$y = 5x + 10$$
 $35 = 5x + 10$
 $35 - 10 = 5x$
 $35 = 5x$
 $5 = 5$
 $5 = x$

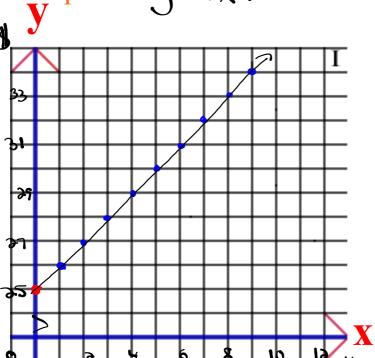
2. How much would it cost for 8 photographs?

$$y = 5x+10$$
 $y = 5(8) + 10$
 $y = 40 + 10$
 $y = 450$

A taxi driver charges a flat fee of \$25 and then \$1 for every km travels



A taxi driver charges a flat fee of \$25 and then \$1 for every km traveled. y = mx + bGraph y = 1x + 35 m = 1Equation



A taxi driver charges a flat fee of \$25 and then \$1 for every km traveled.

1. How far can you travel for \$75? (y=75)

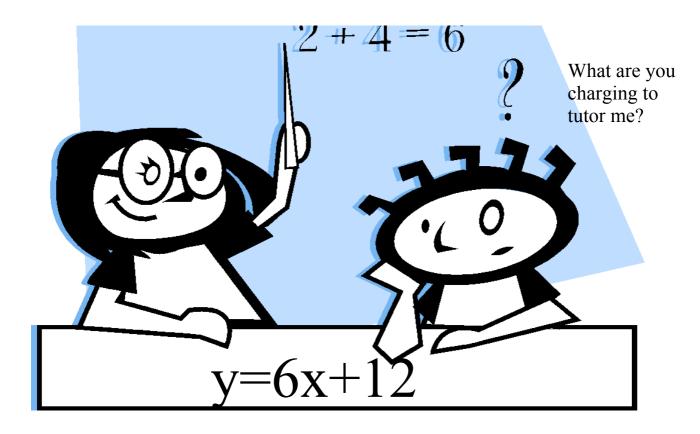
$$75-35 = |X|$$

$$50 \, \text{Km} = X$$

2. How much would it cost to travel 50 km?

$$y = 1x+35$$
 $y = 1(50) + 35$
 $y = 50+35$
 $y = 75$

(x = 50)



Write the scenario that would represent the equation.

Which of the following equations is a reasonable representation of the cost of raking leaves.



$$y = 20x + 5$$

$$y = 5x + 20$$

Homework

$$\emptyset$$
 $y = 35x + 100$

$$\Theta y = 3.5x + 15$$

3
$$y = 5x + 30$$

3 $y = 11x + 60$

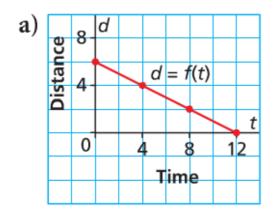
a)
$$x=41$$
 $y=11x+60$
 $y=1141)+60$
 $y=451+60$
 $y=511$

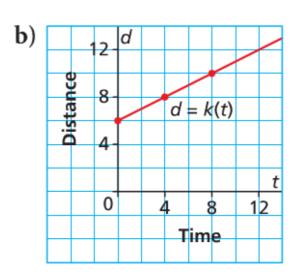
m = Rate of Change (Slope)

b = initial amount (vertical intercept or y-int)

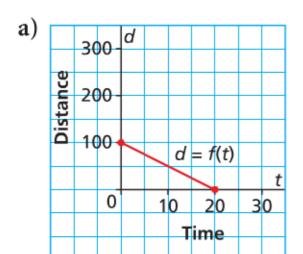
Which graph has a rate of change of 1/2 and a vertical intercept of 6?

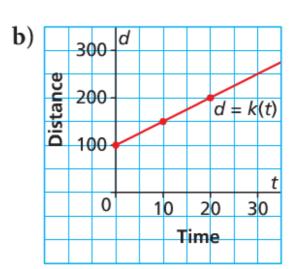
Write the equation for each.





Which graph has a rate of change of -5 and a vertical intercept of 100? Write the equation for each.





State the Y-Intercept & the Rate of Change

<u>Hint</u> y-int = initial amount

a)
$$y = 5x - 4$$

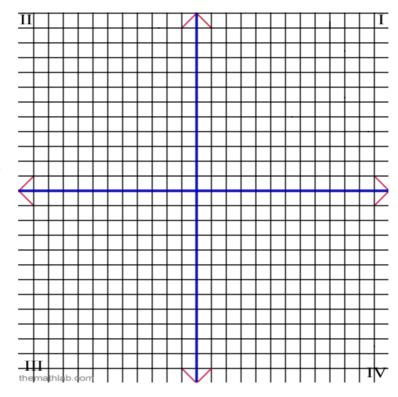
b)
$$C = 10 + 0.56t$$

c)
$$D = -4h + 200$$

Graph the equation y = 3x - 2

Slope: _____

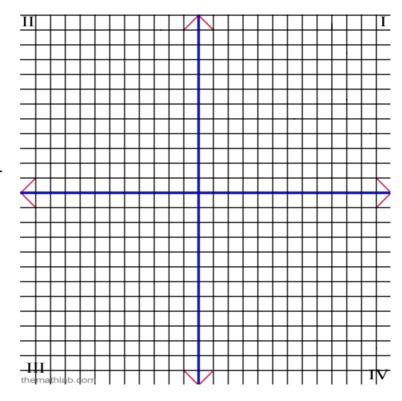
y-int: _____



Graph the equation y = -4x + 8

Slope: _____

y-int: _____



Graph the equation c = 5t - 3

Slope: _____

y-int: _____

