Homework

$$m = \frac{y_{3}-y_{1}}{x_{3}-x_{1}}$$

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

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

$$\frac{-K}{-1} = \frac{-8}{-1}$$

If state the slope perpendicular to 
$$3y-1 = 3x+4$$

$$3y-3 = 3x+4$$

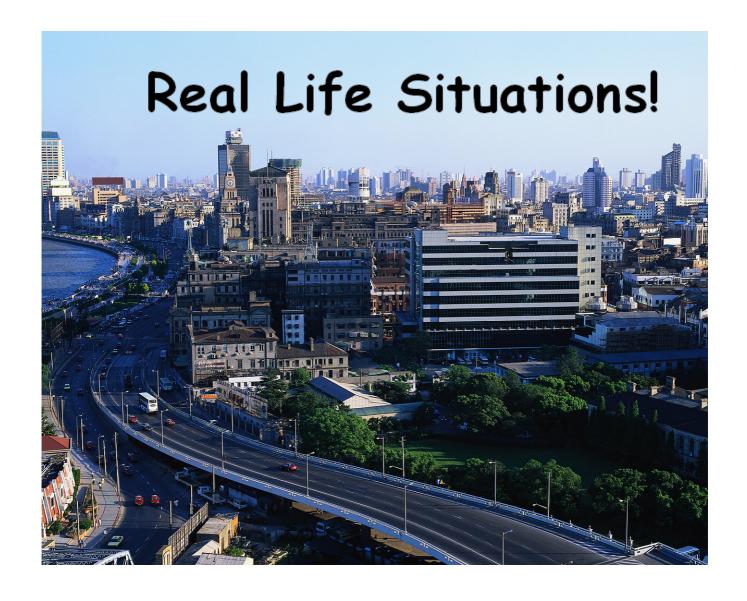
$$3y = 3x+4+3$$

$$y = 3x+6$$

$$3y = 3x+3$$

$$m = 3$$

 $\sqrt{MT = -\frac{3}{3}}$ 







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



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

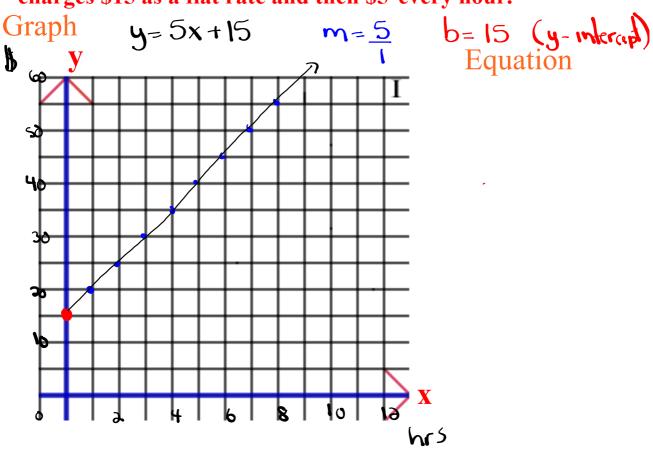
Laura babysits on the weekend to make extra money. She charges \$15 as a flat rate and then \$5 every hour.

$$y = mx + b$$

$$y = 5x + 15$$

$$m = 5$$
  
 $b = 15$ 

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$$y = 5x + 15$$

(X=3)

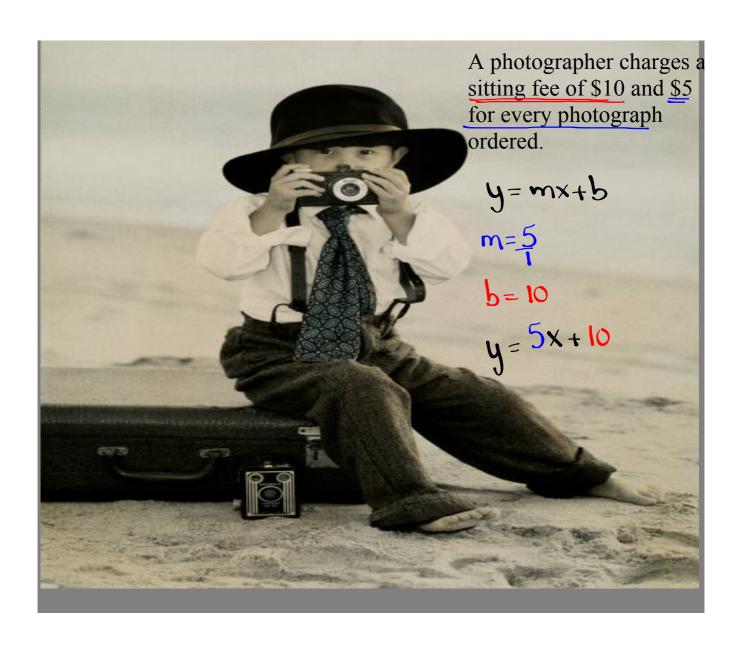
(4=45)

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

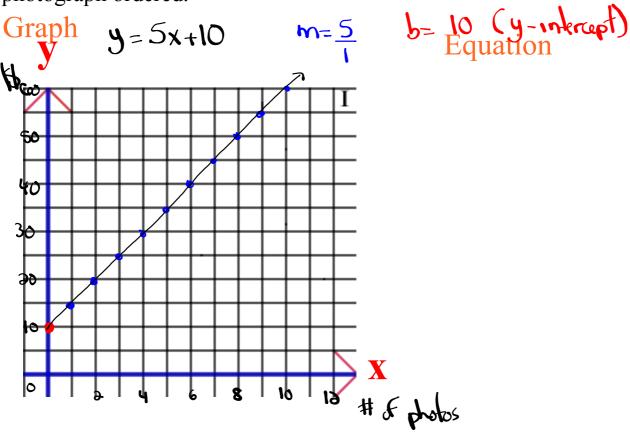
$$y = 5x + 16$$
  
 $y = 5(3) + 15$   
 $y = 15 + 15$   
 $y = $30$ 

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.



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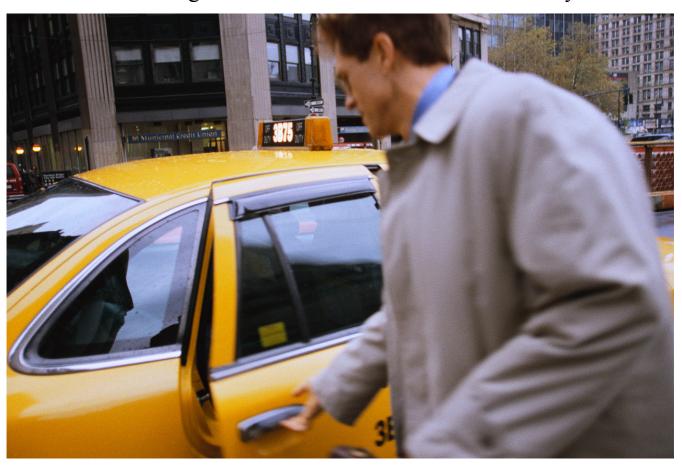
1. How many photographs could you get for \$35?

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

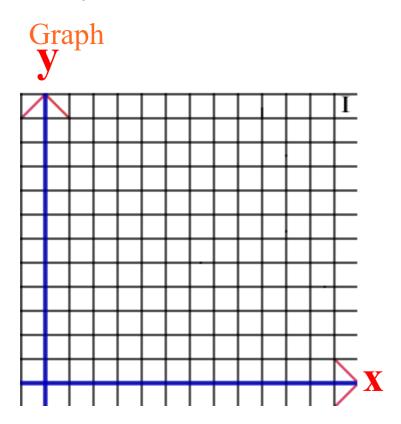
2. How much would it cost for 8 photographs?

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

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.

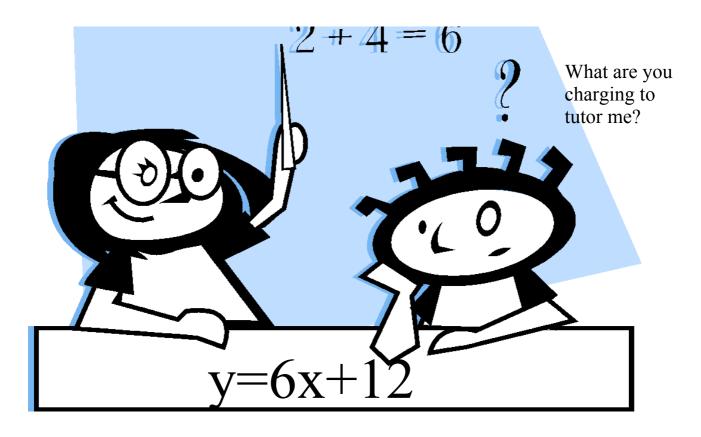


Equation

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

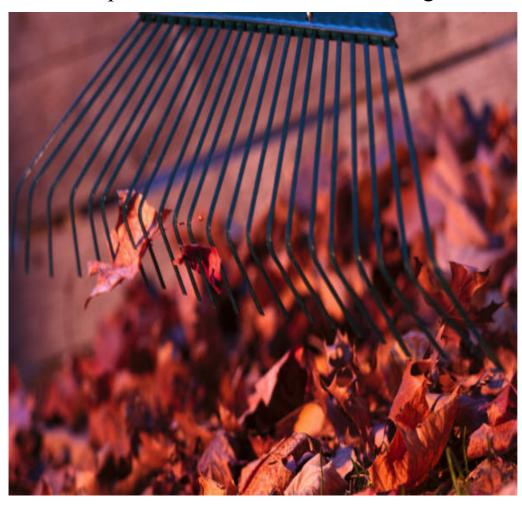
1. How far can you travel for \$75?

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



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  $y = 11x + 60$ 

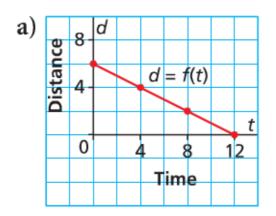
a) 
$$x=41$$
  $y=11x+60$   
 $y=1141)+60$   
 $y=451+60$   
 $y=511$ 

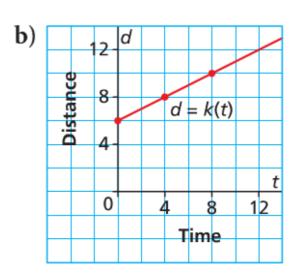
m = Rate of Change (Slope)

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

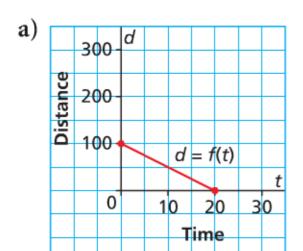
Which graph has a rate of change of 1/2 and a vertical intercept of 6?

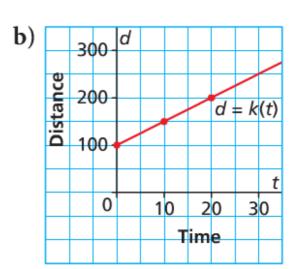
Write the equation for each.





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

**Hint** y-int = initial amount

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

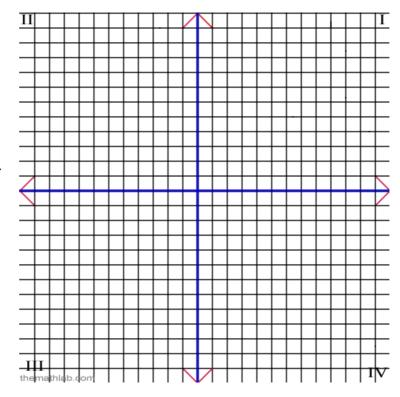
b) 
$$C = 10 + 0.56t$$

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

# Graph the equation y = 3x - 2

**Slope:** \_\_\_\_\_

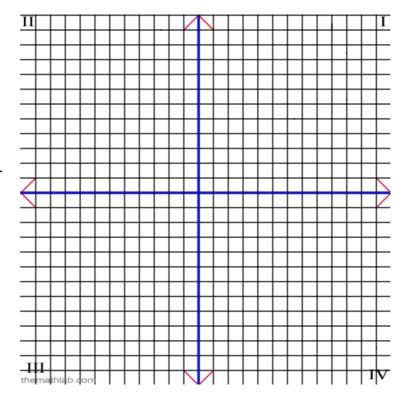
y-int: \_\_\_\_\_



## Graph the equation y = -4x + 8

**Slope:** \_\_\_\_\_

y-int: \_\_\_\_\_



## Graph the equation c = 5t - 3

**Slope:** \_\_\_\_\_

y-int: \_\_\_\_\_

