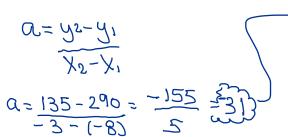
1. What is the equation of a line passing through points (-8, 290) and (-3, 135)?



$$7 = a \times b$$
  
 $290 = -31(-8) + b$   
 $290 = 248 + b$   
 $-248 = -248$   
 $42 = b$  Equation:  $1 = -31 \times b$ 

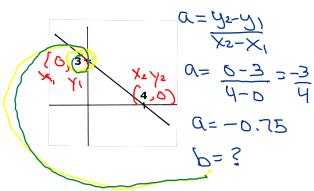
Equation: 
$$\sqrt{=-31\times+42}$$

2. What is the equation of a line with a rate of change of  $\frac{-1}{3}$ , passing through point (-6, 17)?  $\mathcal{Z} = -0.3$ 

$$\gamma = a \times + b$$
 $\gamma = -0.3(-6) + b$ 
 $\gamma = a + b$ 
 $-2 - a + b$ 
 $\gamma = a + b$ 

Equation: 
$$\sqrt{=-5.3} \times + 15$$

**3.** What is the **equation** of the line represented in the graph below?

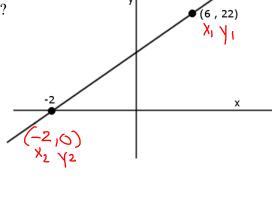


Equation: 
$$\sqrt{=-0.75 \times +3}$$

**4.** What is the **equation** of the line represented in the graph at right?

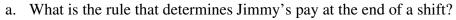
$$a = \frac{0 - 22}{-2 - 6} = \frac{2.75}{2}$$

$$y = a \times b$$
 $0 = 3.75(-2) + b$ 
 $0 = -5.5 + b$ 
 $0 = -5.5 + b$ 
 $0 = -5.5 + b$ 



Equation: 
$$\sqrt{32.75 \times +5.5}$$

5. Jimmy gets a job delivering pizzas at his uncle's pizza shop. His uncle pays him 25\$ to show up, and 3.50 for every pizza)he delivers.



- b. If Jimmy delivers 13 pizzas during a shift, how much money will he make that day?
- c. If Jimmy makes \$119.50 in a shift, how many pizza's must he have delivered?

$$X = \# \text{ of pizzas}$$
  $y = \# \text{ earned}$   
b)  $y = 3.5 \times + 25 \text{ where } \times = 13 \text{ (3)}$   
 $y = 3.5 \text{ (13)} + 25$   
 $y = 45.50 + 25$   
 $y = 70.50 \#$ 

b) 
$$y = 3.5 \times +25$$
 where  $x = 13$  (c)  $y = 3.5 \times +25$  where  $y = 1/9.58$   $y = 3.5 (13) +25$   $y = 45.50 +25$   $y = 45.50 +25$   $y = 45.50 +25$   $y = 45.50 +25$  Rule:  $y = 3.5 \times +25$  Rule:  $y = 3.5 \times +25$ 

Jimmy will make" 70.50

Jimmy will have delivered 27

**6.** Amanda, Tiffany and Emily join an exclusive gym for a year. They each pay an initial yearly membership fee, but must also pay a small fee each time they visit the gym.

(92,306) Amanda visits the gym 92 times and must pay a total of \$306

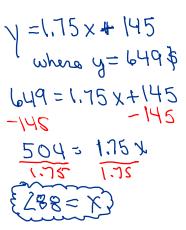
(147,402.25) Tiffany pays \$ 402.25 after visiting the gym 147 times.

If Emily pays a total of \$ 649, how many times must she have visited the gym?

$$X = \# \text{ of gym visits}$$
  $y = \# \text{ cost of gym}$ 
 $a = 402.25 - 306$ 
 $(47 - 92)$ 
 $a = 96.25 = £175$ 
 $306 = 1.75(9)$ 
 $306 = 161 + 161$ 
 $145 = 6$ 

Visit!

Finily must be



Emily must have visited the gym  $\frac{288}{}$  times