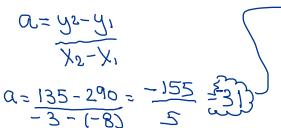
X1 Y1 X2 Y2 1. What is the equation of a line passing through points (-8, 290) and (-3, 135)?



$$-248 - 248$$
 $42 = b$ 

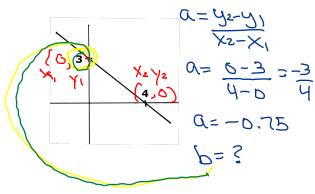
Equation: 
$$\sqrt{=-31} \times +42$$

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

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

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

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

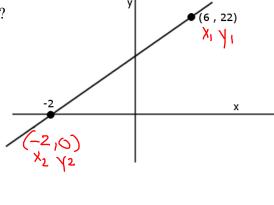


Equation: 
$$\sqrt{=-0.75 \times +3}$$

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

$$a = \frac{-2 - 6}{-6 - 22} = \frac{-8}{-33} = \frac{2.75}{3.75}$$

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



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.
  - a. What is the rule that determines Jimmy's pay at the end of a shift?
  - 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)  $y = 3.5 \times + 25 \text{ where } x = 13$   $y = 3.5 (13) + 25$   
 $y = 45.50 + 25$ 

b) 
$$y = 3.5 \times +2.5$$
 where  $x = 13$  (c)  $y = 3.5 \times +2.5$  where  $y = 19.5$   $y = 3.5 (13) +2.5$   $y = 45.50 + 2.5$   $y = 45.50 + 2.5$   $y = 70.50$  Rule:  $y = 3.5 \times +2.5$ 

Jimmy will make" 70.50 \$

Jimmy will have delivered  $\stackrel{>}{\sim}$ 

- 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
  - Tiffany pays \$ 402.25 after visiting the gym 147 times.

(147,402.25)

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

$$J = \# \cos t \text{ of gym}$$

$$V = 1.75 \times \# 145$$

$$V = 0.75 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times \# 175$$

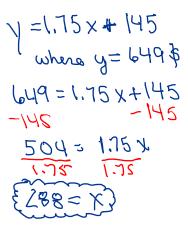
$$V = 0.75 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times \# 175 \times \# 175$$

$$V = 0.75 \times \# 175 \times$$



Emily must have visited the gym 288 times