Find slope given the following information.

1.
$$y = \frac{2}{3}x + 5$$

$$M = \frac{2}{3}$$

$$y = \frac{5}{3}x - 6$$

$$m = \frac{5}{3}$$

1.
$$y = \frac{2}{3}x + 5$$
 2. $5x-3y = 18$ 3. $(9,-5)(-3,7)$

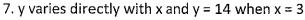
$$M = \frac{2}{3}$$

$$M = \frac{5}{3}x - 6$$

$$M = \frac{7 - 5}{-3 - 9} = -1$$

6. James eats seven cakes every three davs

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



- Find the constant of variation
- Write a direct variation equation that describes the relationship between x and y
- Find the value of y when x = 22

$$y = k \times |y = \frac{14}{3} \times |y = \frac{14}{3} (22)$$
 $|y = \frac{14}{3} \times |y = \frac{14}{3} (22)$
 $|y = \frac{14}{3} \times |y = \frac{14}{3} (22)$
 $|y = \frac{14}{3} \times |y = \frac{14}{3} (22)$

$$|y = \frac{14}{3} \times |$$

$$= \frac{14}{3}(22)$$

$$y = 102\frac{2}{3}$$

$$\frac{14}{220}$$

$$\frac{188}{308}$$
Ow the work that justifies your answer

every box 5

the same.

8. Does the following data represent direct variation? Show the work that justifies your answer.

	Х	У
	3	17.1
	8	45.6
	11	62.7

$$\frac{17.1}{3} = 5.7$$

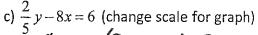
$$\frac{45.6}{8} = 5.7$$

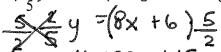
$$\frac{17.1}{3} = 5.7$$
 $\frac{45.6}{8} = 5.7$ $\frac{62.7}{11} = 5.7$

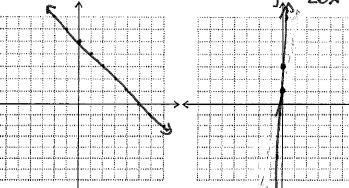
9. Write the following equations in slope intercept form and then graph them.

a)
$$3y - 5x = 18$$

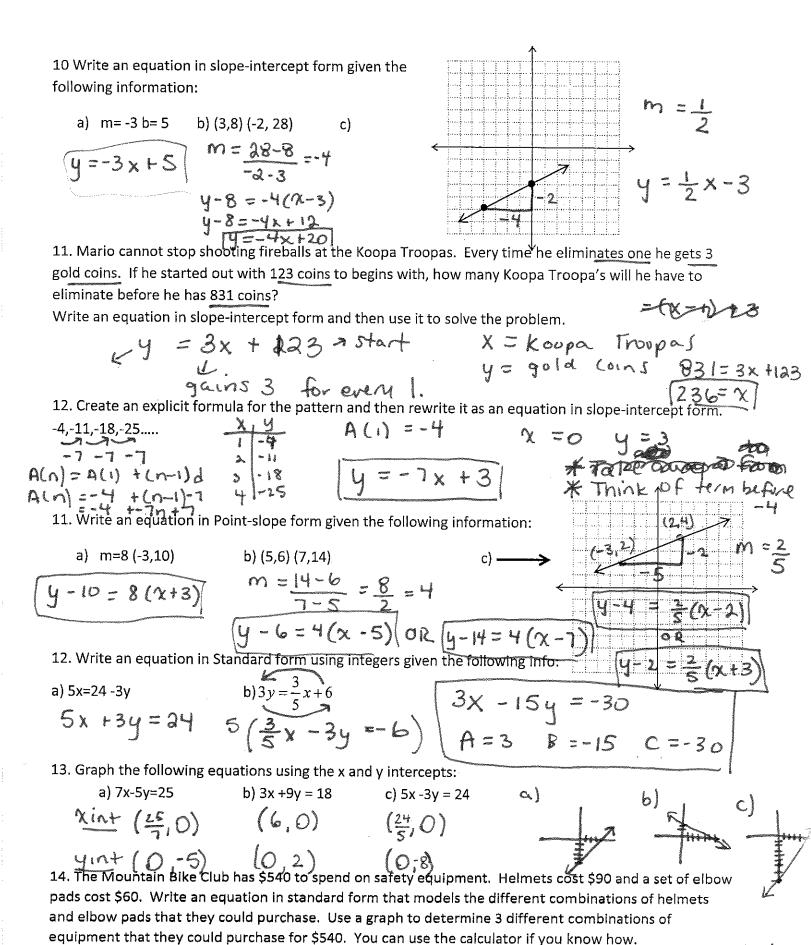
$$y = \frac{5}{3}x + 6$$







* for slope move up 4 right 1/5



X = Helmuts y = elbow pads 90x + 60y = 540 EP xint:(6,0) yint:(0,9) Combos: 6 helmets 90(2) +60(6)=540 0 EP 540=540 0 helmets 9 EP 2 helmets