## **Geometry Worksheet 3-6**



Find the slope between the following points.

- 1) (2,4) and (5,9).
- 2) (-3,7) and (2,0)

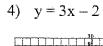
$$M = \frac{9-4-5}{52-3}$$

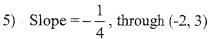
$$m = \frac{7-0}{3-2} = \frac{-7}{5}$$

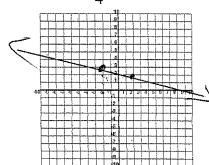
3) (4,-7) and (13,5)

$$m = \frac{5 - (-7)}{13 - 4} = \frac{12}{9} = \frac{4}{3}$$

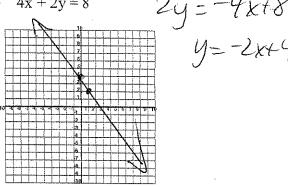
Graph the following linear equations.



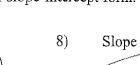




6) 4x + 2y = 8



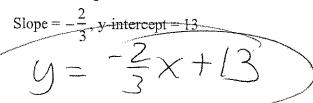
Write the equation for the following lines in slope-intercept form.



10)

12)

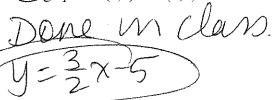
14)



Slope = 3, y-intercept = -5  $y = 3 \times -5$ 

9) Slope =  $\frac{1}{2}$ , through point (6,7) y = mx + b  $7 = \frac{1}{2}(b) + b$  $(y = \frac{1}{2}x + \frac{1}{4})$   $b = \frac{1}{4}$ 

11) Through points (4,1) and (6,4)



Parallel to y = 2x-4y-intercept = -1  $\mathcal{M} = 2$ 

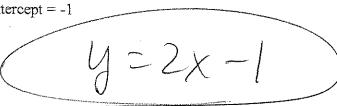
y = 2x - 1

Slope = 3, through point (2,-6)

$$y = Mx + 6$$
  
 $-6 = 3(2) + 6$   
 $y = 3x - 121$   
Through points (1,3) and (2,5)  $y = 3x - 121$   
 $y = Mx + 6$ 

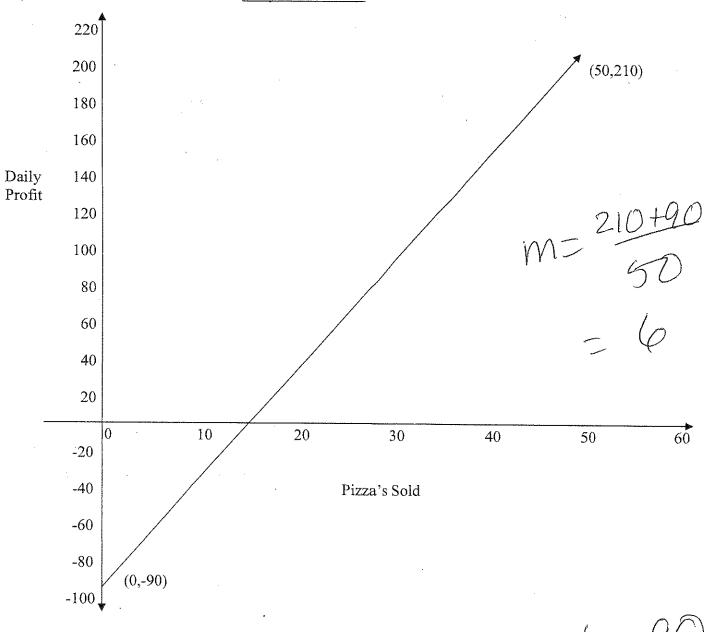
$$y=mx+b$$
 $m=\frac{5-3}{2-1}=\frac{2}{7-2}$ 
 $y=mx+b$ 
 $y=mx+b$ 
 $y=mx+b$ 
 $y=mx+b$ 
 $y=mx+b$ 

Perpendicular to  $y = -\frac{1}{2} \frac{y - 2x + 1}{7}$ y-intercept = -1



B)

E)



Write the equation for Polly's daily profit in slope-intercept form. A)

Write the X and Y intercepts and describe their importance to the graph and Polly.

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Give the slope and describe it's importance to the graph and Polly.

Use your equation to predict how much Polly will make if she sells 30, 40, and 60 pizzas in a day. D)

Why is it not important to continue the graph to the left of the Y-axis?