1. Write the equation in Point-Slope Form, of the line that passes through this pair of points

Eq: 
$$\frac{9-5}{-2+6} = \frac{-14+2}{4+2} = \frac{-7}{2}$$
  
 $y-5=\frac{-7}{2}(x+6)$   
 $y+9=\frac{-7}{2}(x+2)$ 

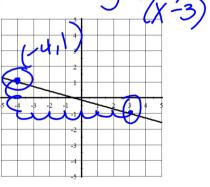
(8,-3) and (5,-3)

\+3=0(x-8)

2. Write the equation, in Point-Slope Form, of the line that passes through this pair of points

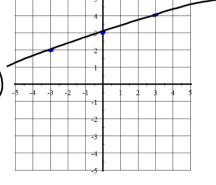
3. Write the equation, in Point-Slope Form, of the line shown in the graph below.

EQ:



4. Graph this equation using at least 3 points.

$$y-2 = \frac{1}{3}(x+3)$$
  
 $y'= \frac{1}{3}x+3$   
Pt  $(-32)$   
 $M = \frac{1}{3}$ 



5. Rewrite each eqation into Slope-Intersept Form (don't use any rounded decimals)

a) 
$$y-8 = -\frac{2}{3}(x+12)$$
  $(y) = mX_{b} + y+2 = \frac{1}{6}(x-5)$   
 $y - 8 = -\frac{2}{3}X - 8$   $(y) + 2 = \frac{1}{6}(x-5)$   
 $y - 2 = -\frac{1}{3}X - \frac{1}{5}X - \frac{1}{5$ 

(12, 5); 
$$m = -3$$
  
 $y - 5 = -3(x - 12)$ 

## Quiz Review

Write an equation in point-slope form of the line that passes through the given point and has the given slope.

• 
$$(4, -5); m = 6$$
  $y + 5 = 6(x - 4)$ 

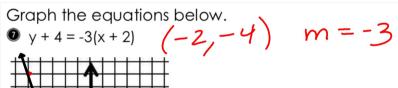
$$y+2=3(x+4)$$

**6** (7, -6); 
$$m = \frac{1}{2}$$

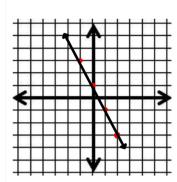
$$y + 6 = \frac{1}{2}(x - 7)$$

**6** (-8, 2); 
$$m = -\frac{3}{4}$$

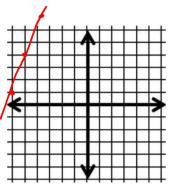
(-8, 2); 
$$m = -\frac{3}{4}$$
  $y - 2 = -\frac{3}{4}(x+8)$ 

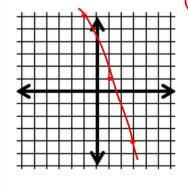


$$P^{+}(2,-3)$$
  
+  $M=-2$ 

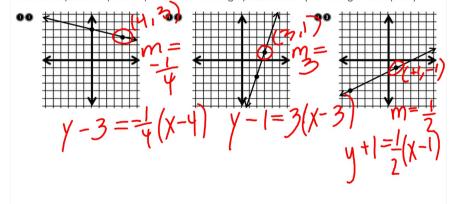


$$9 \text{ y-1} = 3(x+6) \text{ pt } (-6,1)$$
 $m=3$ 





Write an equation in point-slope form of the line graphed below. (Use the right hand point)



4. 
$$(4,7)$$
 and  $(5,1)$   
 $y-7=-6(X-4)$ 

$$(9,-2)(-3,2)$$

$$y+2=-\frac{1}{3}(X-9)$$

16. 
$$(3, -8)$$
  $(7, -2)$   
 $1 + 8 = \frac{3}{2}(x-3)$ 

Hwk #37 - Point Slope Form Practice Worksheet

IXL #15 - S.4 & S.21 due Friday at 4pm!