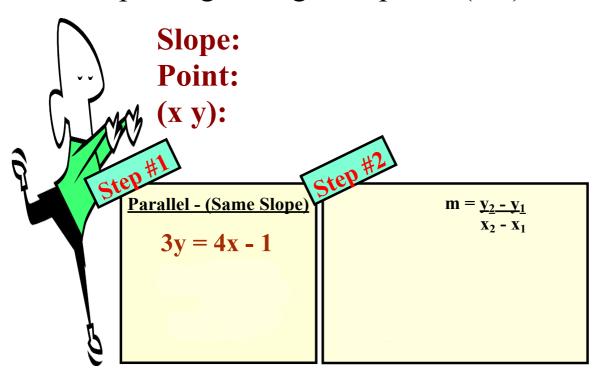




## Warm Up Questions

- #1 Find the equation of a line parallel to 3y=4x-1 and passing through the point (4,2).
- #2 Determine the equation of a line perpendicular to 4x+5y=7 and having the same x-intercept as 10x+7y=-20.
- #3 Determine the equation of a horizontal line passing through the same point on the y-axis as 3y = 6x 9

Find the equation of a line parallel to 3y=4x-1 and passing through the point (4,2).



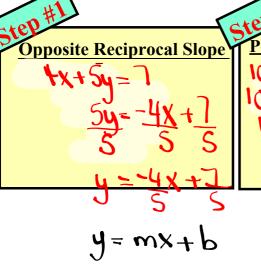
Determine the equation of a line perpendicular to 4x+5y=7 and having

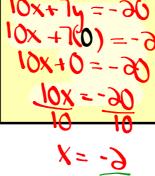
the same x-intercept as 10x+7y=-20.

slope: 5/4 m = 5/4

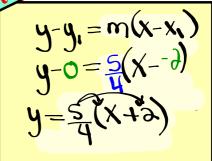
point: (-2, 0)  $\chi_{i} = -3$   $\psi_{i} = 0$ 

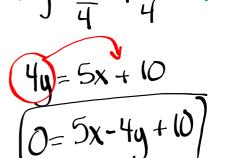
(x,y):





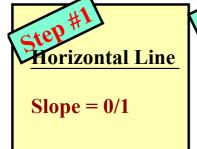


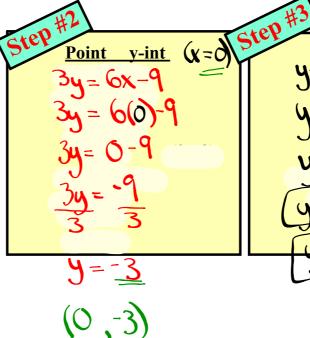


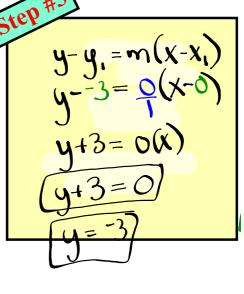


Determine the equation of a horizontal line passing through the same point on the y-axis as 3y = 6x - 9 (yint??)

slope:  $m = \frac{0}{1}$ point: (0, -3)  $X_1 = 0$   $y_1 = -3$ (x, y): (x, y)







Homowork:

O Given:

point: (-2,7) x,=-2 y,=7

(1) Find Slope

 $\lambda = \overline{7} \times -\frac{3}{4}$ 

4= mx+b

m=4

M11 = 4

(11) 
$$y-y_1 = m(x-x_1)$$

 $y-\overline{\gamma}=4(x--\overline{\beta})$   $y-\overline{\gamma}=4(x+\overline{\beta})$ 

y= 4x+8+

y= 4x+15) Slope intercept

Sorm

O= 4x-y+15) General Form

3 Given:  

$$x-int$$
: (3,0)  $x_1=3$   $y_1=0$   
 $y-int$ : (0,-4)  $x_1=0$   $y_1=-4$ 

(1) Find m:  

$$m = \frac{5 \cdot 4!}{x_0 - x_1}$$
  
 $m = -\frac{4 - 0}{0 - 3}$   
 $m = -\frac{4}{3}$   
 $m = -\frac{4}{3}$   
 $m = \frac{4}{3}$   
 $m = \frac{4}{3}$   
 $m = \frac{4}{3}$   
 $m = \frac{4}{3}$   
 $m = \frac{4}{3}$ 

- 3 Given, Point: (4,-3) X = 4 y = -3
- $\frac{\partial}{\partial y} = \frac{\partial}{10x} \frac{\partial}{\partial y}$ y = 5x - 1m=5 $m_{\parallel} = 5$

(i) Find Slope
(ii) 
$$y-y_1 = m(x-x_1)$$
 $3(y-1)=10x-4$ 
 $y-3=5(x-4)$ 
 $3y=10x-4$ 
 $3y=10x-3$ 
 $3y=10x-3$ 
 $3y=10x-3$ 

M(3, 5) U(-2, -1) D(0, -4) Find the equation of a line parallel to MD and passing through U.

```
slope:
point:
(x,y):
```