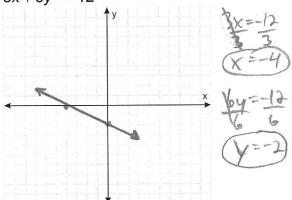
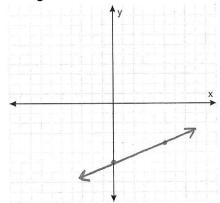
Unit 5 Review
Unit 5 Test - 40 Points Total

## Graph each equation. (2 Points Each)

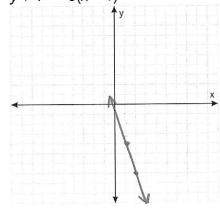
1 
$$3x + 6y = -12$$

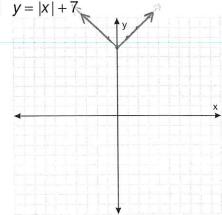


2 
$$y = \frac{2}{5}x - 6$$

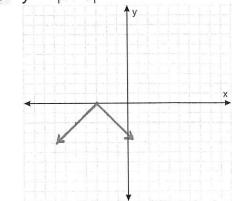


3 
$$y+4=-3(x-1)$$





5 
$$y = -|x+3|$$



## Write each equation in slope-intercept form. (2 Points Each)

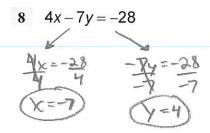
$$\begin{array}{ccc}
6 & 10x + 5y = -35 \\
-1 O_{\times} & -1 O_{\times}
\end{array}$$

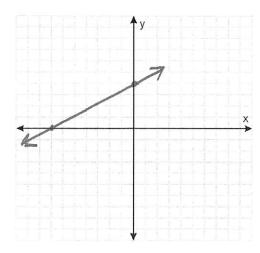
$$\frac{5y = -10x - 35}{5}$$

7 
$$y+7=-2(x-3)$$

Name: Key

Find the x-intercept and y-intercept. Then graph the equation. (4 Points)





Write an equation in point-slope form for the line that has the given slope m and that passes through the given point. (2 Points)

9 
$$m = -\frac{9}{5}$$
; (-5,6)  
 $y - 6 = -\frac{9}{5}(x+5)$ 

Write an equation in slope-intercept form for the line that passes through the given points. (2 Points)

10 (2,-3) and (-8,5)  

$$M = \frac{1}{3} - \frac{1}{4} \times \frac{1}{4} = \frac{1}{3} \times \frac{1}{3} = \frac{1}{3}$$

Write an equation in slope-intercept form for the line that passes through the given point and is <u>perpendicular</u> to the given line. (2 Points)

11 
$$(4,-7)$$
;  $y = 3x + 17$   
 $M = -\frac{1}{3}$   
 $Y = -\frac{1}{3}x + 6$   
 $-7 = -\frac{1}{3}(4) + 6$   
 $-\frac{1}{3} = -\frac{1}{3} + 6$   
 $+\frac{1}{3} = -\frac{1}{3}$   
 $-\frac{17}{3} = -\frac{1}{3}$