Name: Answers Period: _____

5.0 - Graphing Review

1) ***Slope-intercept form*** is an equation written in the form $y =$ $mx + b$, where m represents the line's slope and b represents the line's y-intercept.

Solve each equation for y. Then determine the slope and y-intercept of the equation.

2) $2y = -4x + 2$

$\frac{2y}{2} = \frac{-4x+2}{2}$

$y = -2x + 1$

$m =$ -2 $b =$ $(0,1)$

3) $x - 3y = 9$

$-x \quad -x$

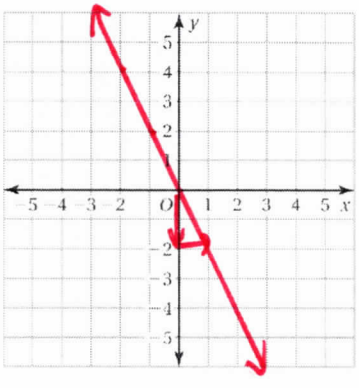
$\frac{-3y}{-3} = \frac{-x+9}{-3}$

$y = \frac{1}{3}x - 3$

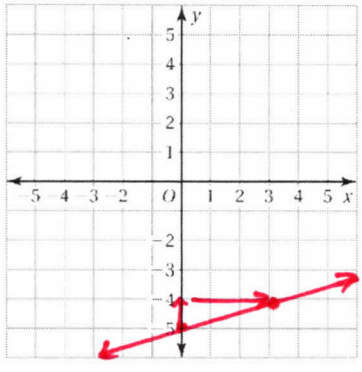
$m =$ $\frac{1}{3}$ $b =$ $(0,-3)$

Graph each line using the given information about the slope and y-intercept.

4) $m = -2$ *and* $b = 0$



5) $m = \frac{1}{3}$ *and* $b = -5$



6) Change to slope intercept form and graph
$3x - 2y = -2$

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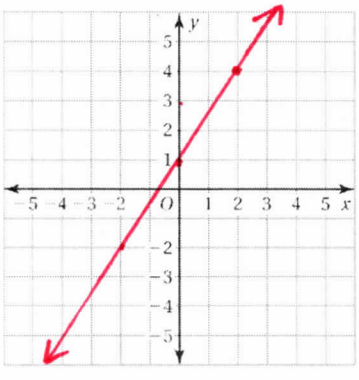
$-3x \quad -3x$

$\frac{-2y}{-2} = \frac{-3x-2}{-2}$

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



7) Graph the equation using any method
$-4x + 3y = -12$

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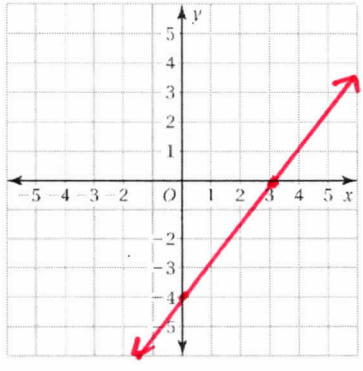
$+4x \quad +4x$

$\frac{3y}{3} = \frac{4x-12}{3}$

$y = \frac{4}{3}x - 4$



Show whether the given ordered pair is a solution of the equation. *Show your work!*

8) $y = 3x + 4$; $(-1, 1)$

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

$1 = -3 + 4$

$1 = 1$ ✓ Yes

9) $2x - 3y = 15$; $(0,5)$

$2(0) - 3(5) = 15$ * y

$0 - 15 = 15$

$-15 = 15$ No