Name: Joel Lopez

Nov 14, 2025

Period 4

Ms. Ramos

Chapter 4 Lessons 6-11 Test Part 2 Study Guide

4-6: Slope Intercept Form

Write the equation that describes each line in Slope-Intercept form.

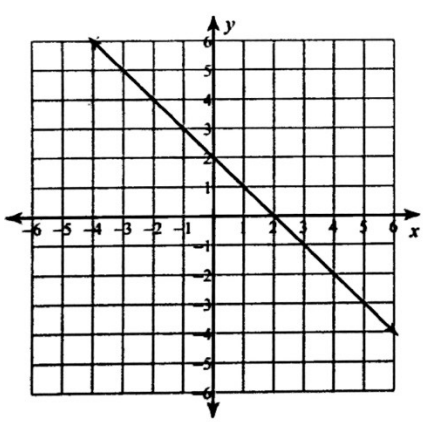
1.) Slope = ⅓ , y-intercept = 6

$y = \frac{1}{3}x + 6$

2.) slope = 0 , y-intercept = -5

$y = 0x - 5$

3.)



$y = -1x + 2$

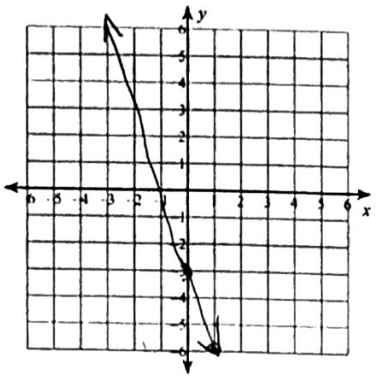
4.) Slope = 4 , (2 , 5) is on the line

$y = 4x - 3$

Graph each line that is given in slope-intercept form.

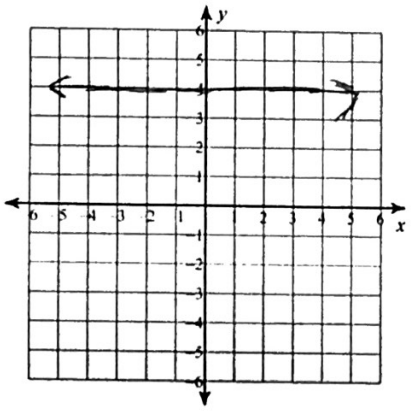
5.)

$y = -3x - 3$



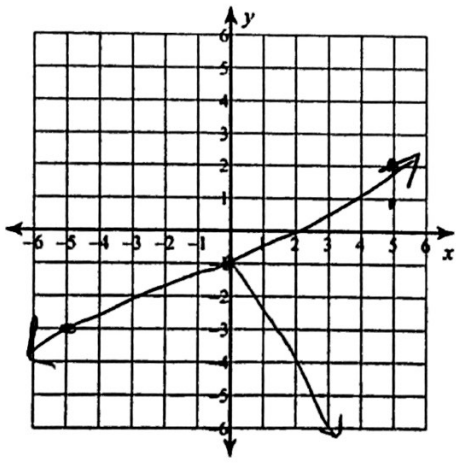
6.)

$y = 4$



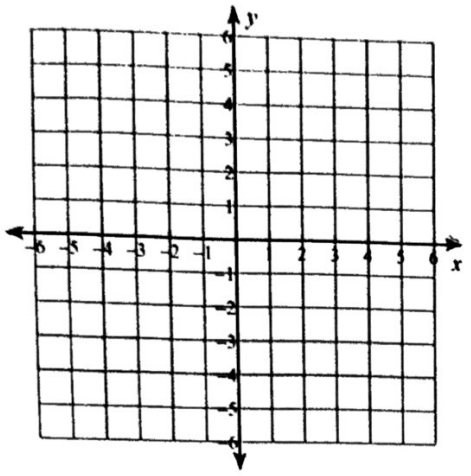
7.)

$y = \frac{3}{5}x - 1$



8.)

$10x - 3y = -15$



$\frac{10x}{-3} \quad \frac{-3y}{-3y} = \frac{-15}{-3}$

$y = \frac{10}{-3} + 5$

4-7: Point-Slope Form: $y - y_1 = m(x - x_1)$

Write an equation in point-slope form for the line with the given slope that contains the given point.

9.) slope = 2 ; (½ , 1) $y - 1/2 = 2(x-1) \Rightarrow 1/2y = 2x - 1$

10.) Slope = 0 ; (3 , -4) $y + -4 = 0(x-3) \Rightarrow \frac{-4x = x}{-1}$

$4y = x$

Graph the line described by each equation. $y - y_1 = m(x - x_1)$

11.) $y = mx + b$

12.)

$y - 1 = 3(x + 2)$

$y = 3(x+2) + 1$

$y = 3x + 6 + 1$

$y = 3x + 7$

$=$

$=$

$x = 1$

$f(x) = 3x + 7$

$1 = 3 + 7$

$4 = 10$, $x = 1$.

$x = 0$

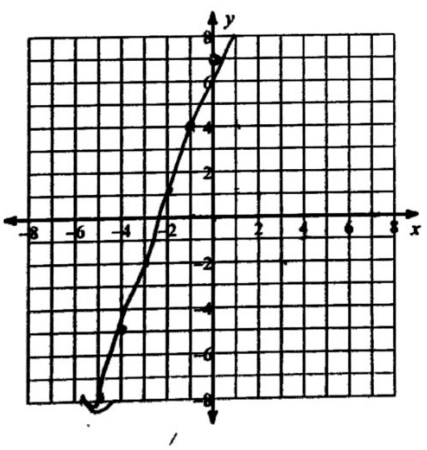
$= 3(0) + 7$

$y = 7$

$x = -1$

$y = 3(-1) + 7$

$y = 4$



$y =$

$y - 4 = -2(x - 1)$

$y - 4 = -2(x$

$+4$

$y = -2x - 2 - 4$

$y = -2x + 6$

$x = 1$

$y = -2(1) + 6$

$y = -2 + 6$

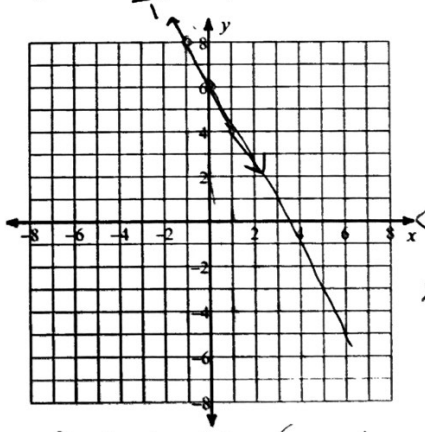
$y = 4$

$x = -1$

$y = 2(-1) + 6$

$y = 2 + 6$

$y = 8$



$x = 1, y = 4$ $(1, 4)$

$x = -1$ $y = 8$ $(-1, 8)$

$x = 0,$

$\frac{11}{2} \cdot \frac{2}{1} = 11$

Write the equation that describes each line in slope-intercept form.

13.) **(2 , 7) and (4 , -4) are on the line**

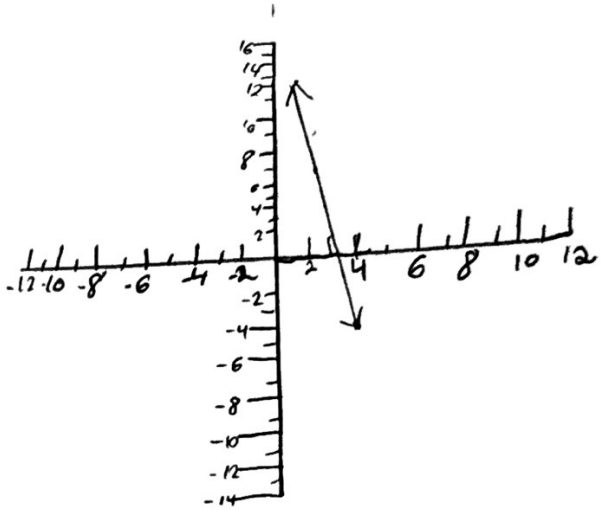
$y - 7 = \frac{-11}{2}(x-2)$ $\quad \frac{-4-7}{4-2} = \frac{-11}{2} = m$

$+7 \qquad\qquad +7$

$y = \frac{-11}{2}(x-2)+7$ $\qquad y =$

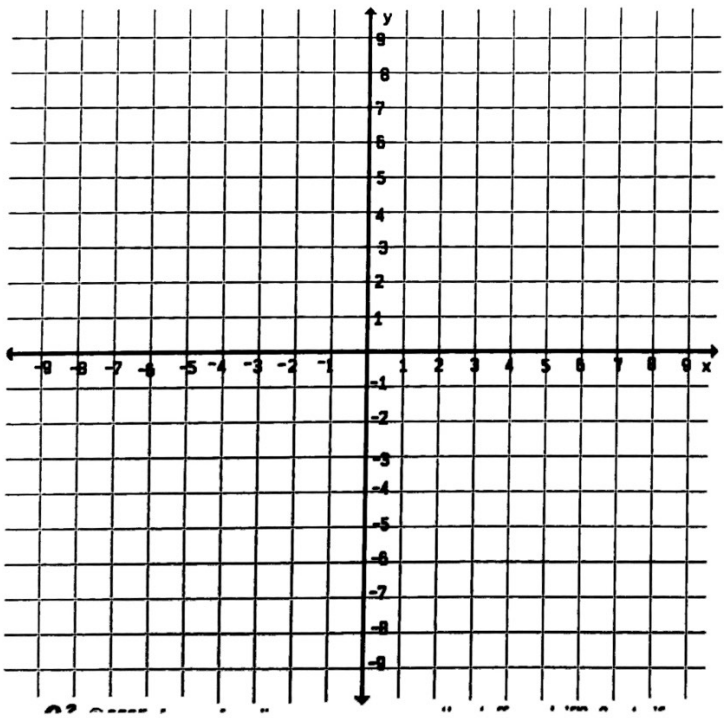
$y = \frac{-11}{2}x + 11 + 7$

$y = \frac{-11}{2}x + 18$

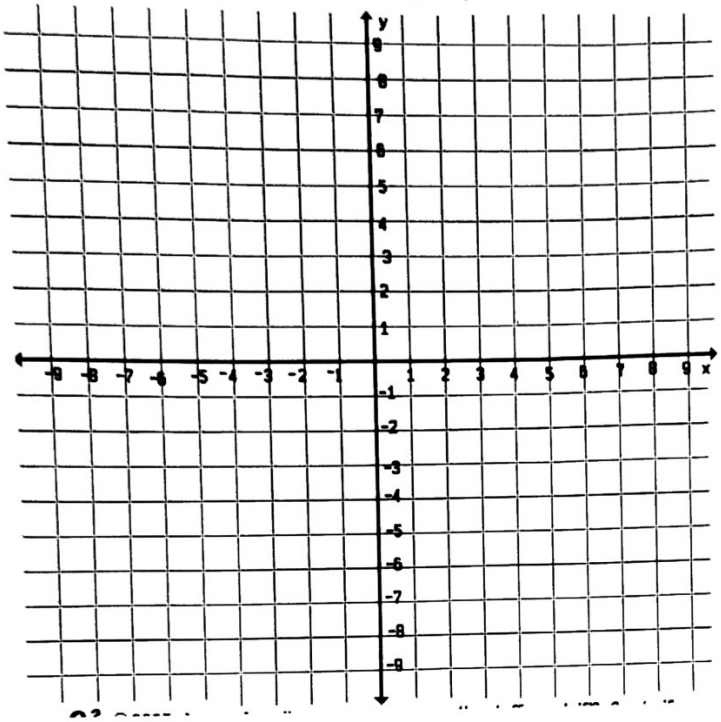


4-9: Parallel and Perpendicular Lines

14.) **Write an equation in slope-intercept form for the line that passes through (4 , - 5) and is parallel to the line $y = \frac{1}{2}x + 5$. Then graph both lines on the coordinate plane. Be sure to label each graph with its corresponding equation.**



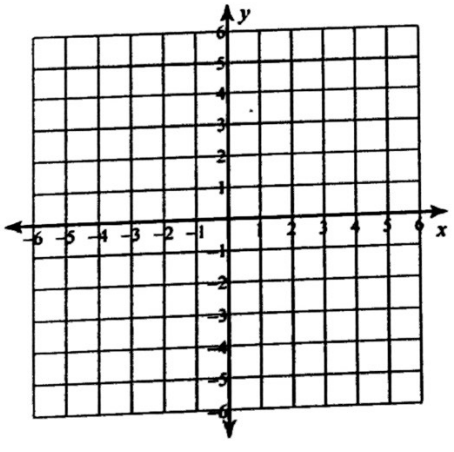
15.) Write the equation in slope-intercept form of the line that passes through (5 , 0) and is perpendicular to the line described by $y = \frac{-5}{2}x + 6$. Then graph both lines on the coordinate plane. Be sure to label each graph with its corresponding equation.



4-11 Absolute-Value Equations:

Graph the following absolute-value equations.

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



$y = -3|3x - 3| + 1$