Unit 2 Review of slope and slope intercept form. Name: _____ Hr: __

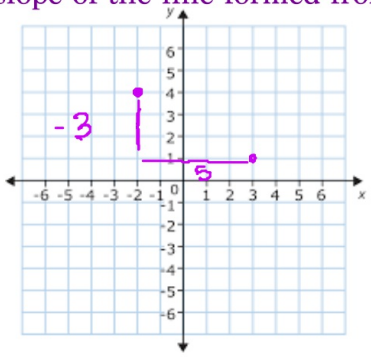
1. Use two different strategies to find the slope of the line formed from the ordered pairs (-2, 4) and (3, 1).

$x_1\ y_1$ $x_2\ y_2$

$\frac{\text{rise}}{\text{run}} = \frac{-3}{5}$

Formula: $\frac{y_2 - y_1}{x_2 - x_1}$

$\frac{1-4}{3+2} = \frac{-3}{5}$



Find the slope of the line formed from the ordered pairs below.

2. (3, 9) and (5, 3)

$x_1\ y_1$ $x_2\ y_2$

$\frac{3-9}{5-3} = \frac{-6}{2} = \frac{-3}{1}$

3. (5, 1) and (6, 5) $4/1$

4. (13, 0) and (-2, 5)

$\frac{5-0}{-2-13} = \frac{5}{-15} \rightarrow \frac{1}{-3} = -\frac{1}{3}$

5. (-10, 6) and (-5, 8)

$\frac{8-6}{-5+10} = \frac{2}{5}$

6. (5, 8) and (5, 12)

$\frac{4}{0} \rightarrow$ undefined (vertical line ↕)

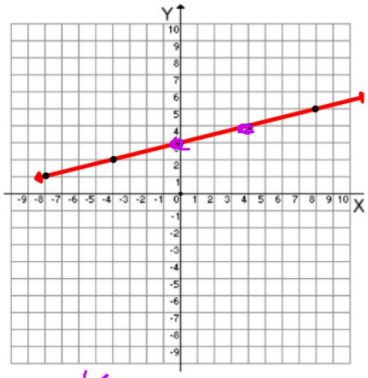
7. (-6, 4) and (9, 4)

$x_1\ y_1$ $x_2\ y_2$

$\frac{4-4}{9+6} = \frac{0}{15} = 0$ (horizontal line ↔)

Find the slope (m) and y-intercept (b) of the lines graphed below. Then, write the equation of the line in slope-intercept form. ($y = mx + b$)

8.

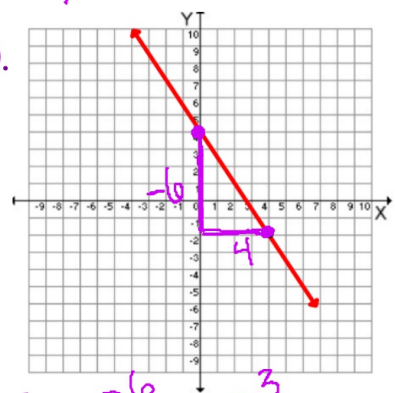


slope: $1/4$

y-intercept: 3

equation in slope-intercept form: $y = \frac{1}{4}x + 3$

9.

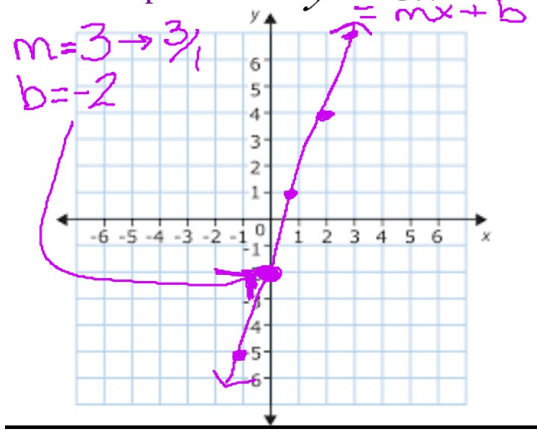


slope: $\frac{-6}{4} = -\frac{3}{2}$

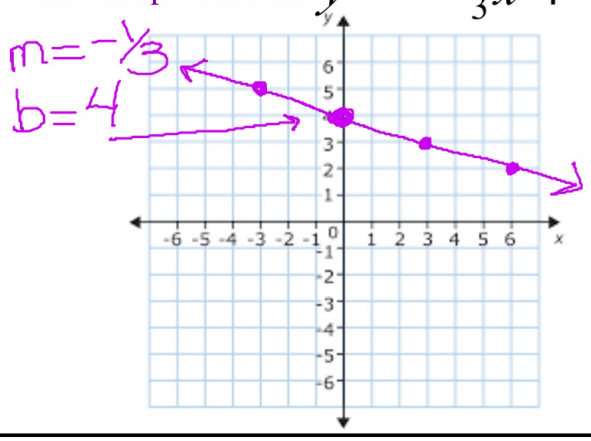
y-intercept: 4

equation in slope-intercept form: $y = -\frac{3}{2}x + 4$

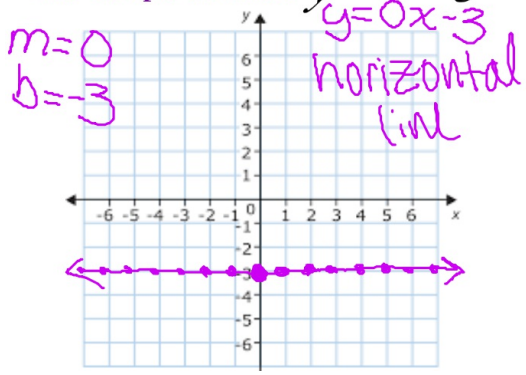
10. Graph the line $y = 3x - 2$



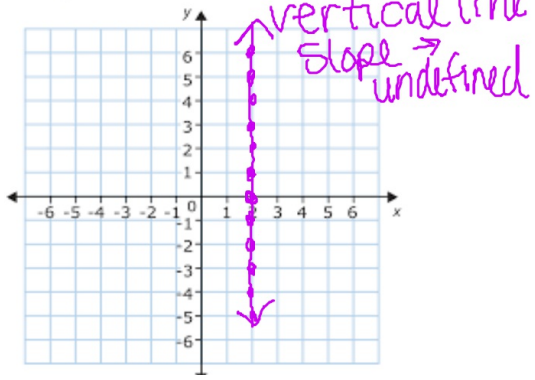
11. Graph the line $y = -\frac{1}{3}x + 4$



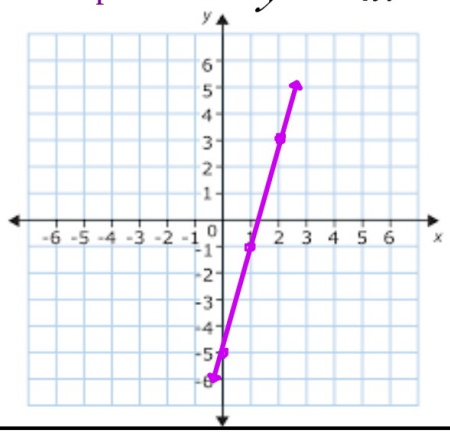
11. Graph the line $y = -3$



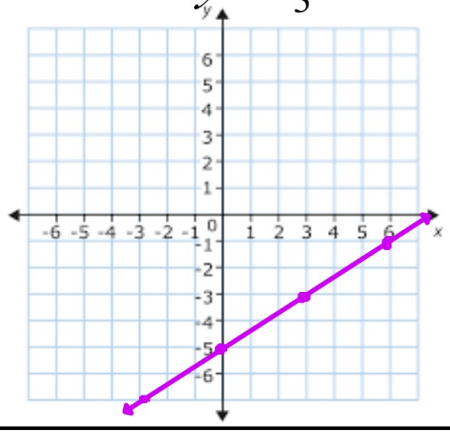
12. Graph the line $x = 2$



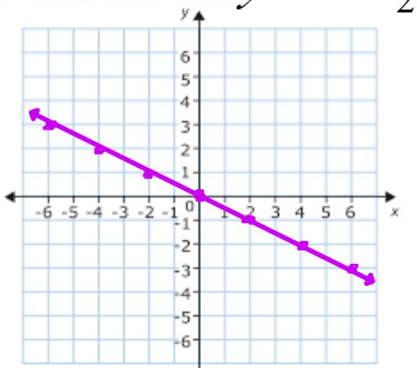
13. Graph the line $y = 4x - 5$



14. Graph the line $y = \frac{2}{3}x - 5$



15. Graph the line $y = -\frac{1}{2}x$



16. Graph the line $y = x + 4$