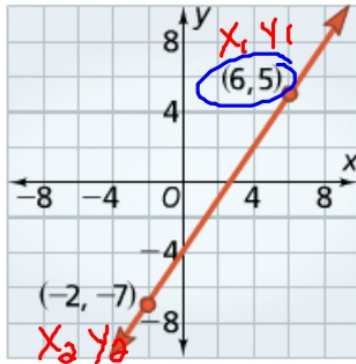


## 3.7 Review - Warm-up

For Exercises 1 and 2, use the graph below.



1. What is the slope of the line?

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-7 - 5}{-2 - 6} = \frac{-12}{-8} = \frac{12}{8} = \boxed{\frac{3}{2}}$$

2. What is the equation of the line? Give your answer in point-slope form.

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

$$\boxed{y - 5 = \frac{3}{2}(x - 6)}$$

3. What is the equation of the line with slope  $-2$  and  $y$ -intercept  $(0, 7)$ ? Give your answer in slope-intercept form.

$$y = mx + b$$

$$\boxed{y = -2x + 7}$$

4. What are the equations for the horizontal line and vertical line through  $(4, 3)$ ?

$$\boxed{x = 4 / y = 3}$$