

NAME \_\_\_\_\_

**Module 8** Writing Linear Equations of Two Variables

**Lesson 2** Writing Equations of Lines, Given the Slope and y-Intercept



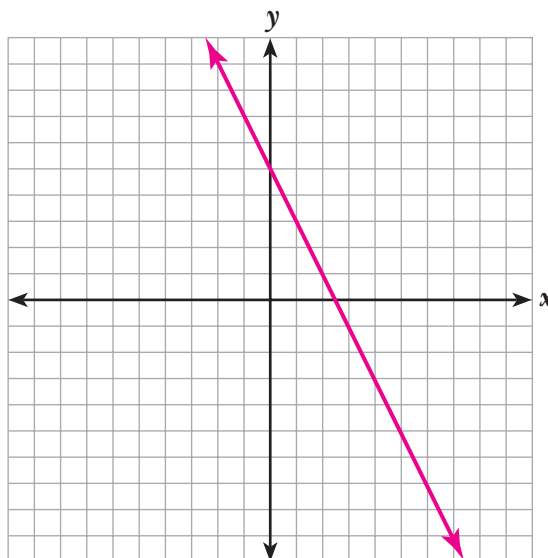
guided  
practice

**Set 1**

1. Find the equation of the line in slope-intercept form.

$$y = -2x + 5$$

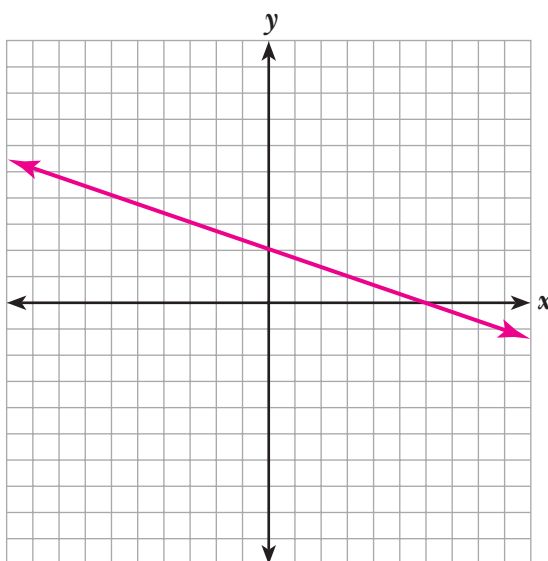

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2. Find the equation of the line in slope-intercept form.

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

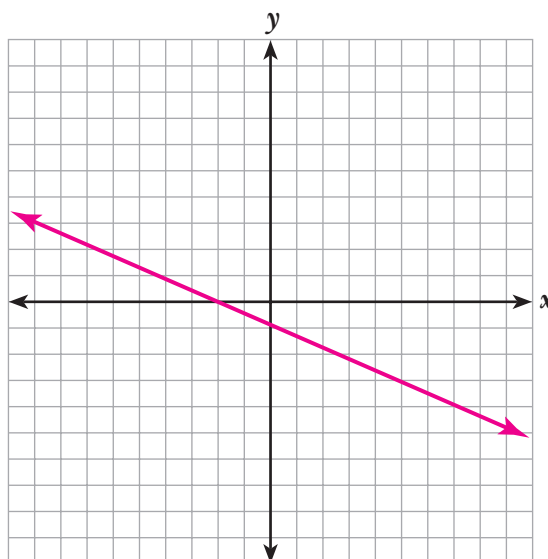

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3. Find the equation of the line in slope-intercept form.

$$y = -\frac{2}{5}x + (-1) \text{ or } y = -\frac{2}{5}x - 1$$


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### Set 2

1. Find the equation of the line in slope-intercept form.

Slope:  $-\frac{3}{4}$  y-intercept: 6

$$y = -\frac{3}{4}x + 6$$


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2. Find the equation of the line.

Slope: undefined Passes through  $(-2, 7)$

$$x = -2$$


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3. Find the equation of the line.

Slope: 0 Passes through  $(0, 4)$

$$y = 4$$


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### Set 3

1. Write the equation of the line that is parallel to  $y = \frac{3}{5}x + 2$  and has a y-intercept of  $-5$ .

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


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2. Write the equation of the line that is perpendicular to the line  $y = \frac{5}{6}x - 9$  and has a y-intercept of 3.

$$y = -\frac{6}{5}x + 3$$


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