

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 8** Writing Linear Equations of Two Variables  
**Lesson 4** Solving Linear Equations in Two Variables When Parameters Are Changed

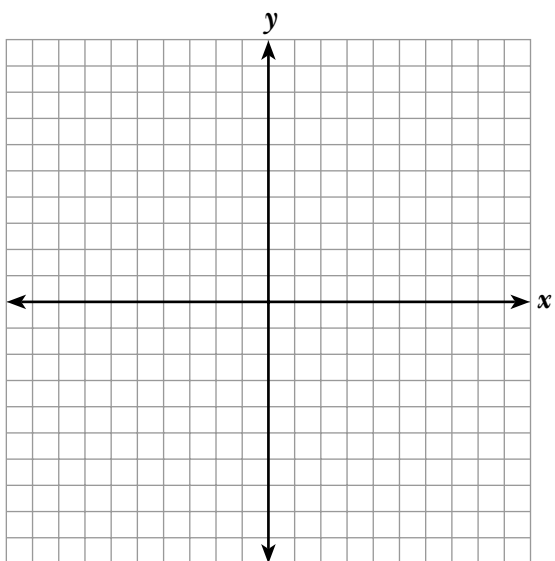
**guided practice**

**Set 1**

1. Given  $y = -x + 4$ , determine the resulting equation when the slope is increased by two. Compare the graphs.

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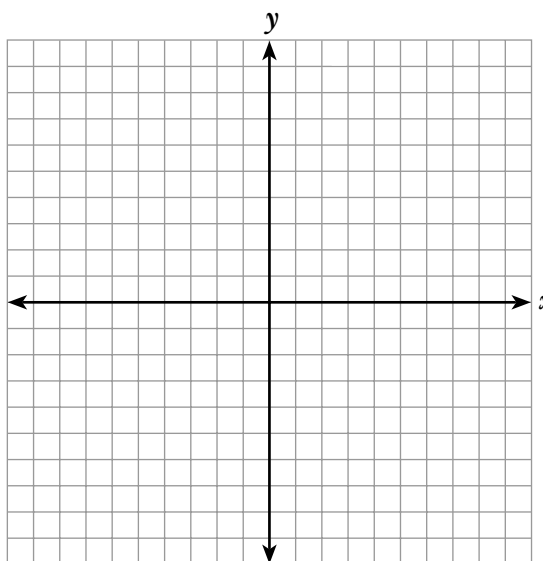
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2. Given  $y = \frac{5}{6}x + 3$ , determine the resulting equation when the y-intercept is decreased by 7. Compare the graphs.

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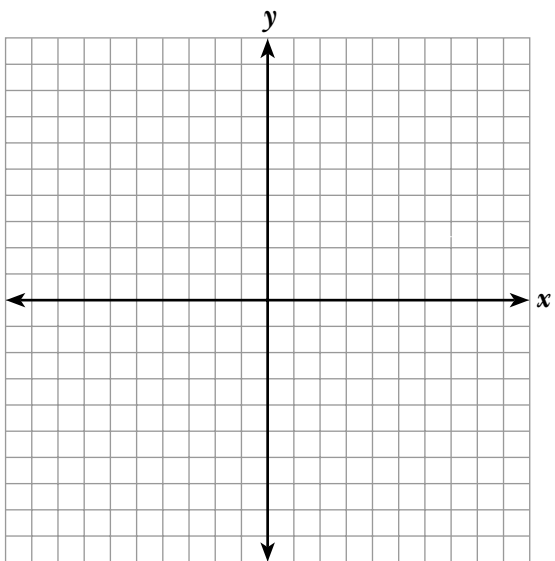


3. Given  $y = \frac{1}{2}x + 1$ , determine the resulting equation when the slope is multiplied by negative sixteen. Compare the graphs.

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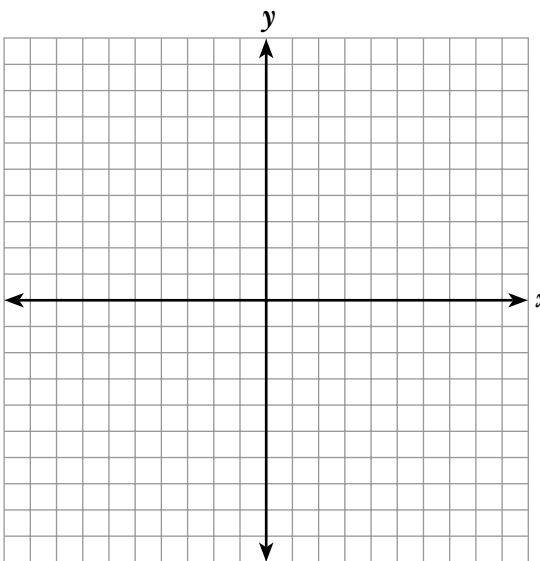


2. Find an equation of the line with the same slope and opposite y-intercept as the line  $2x + y = 3$ . Compare the graphs.

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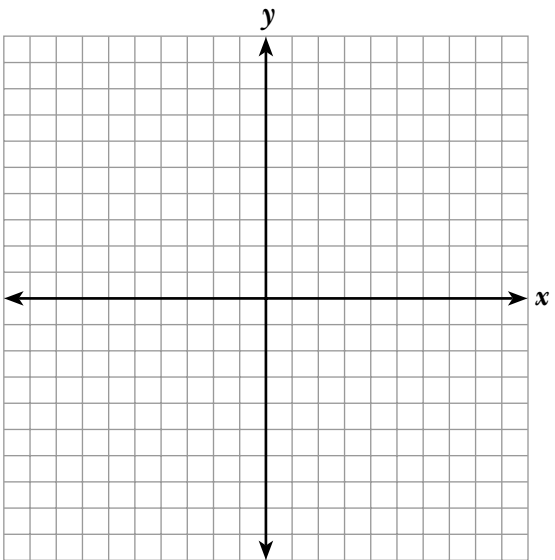
**Set 2**

1. Find an equation of the line with the same y-intercept and opposite slope as the line  $2x + y = 3$ . Compare the graphs.

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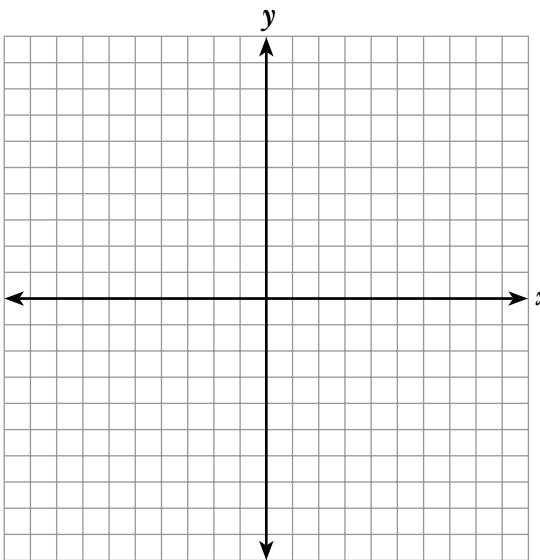


3. Find the slope and y-intercept of  $2x + y = 3$ . Find an equation of the line whose slope is negative one-fourth times the slope of the given line and whose y-intercept is three less than the y-intercept of the given line. Compare the graphs of the two lines.

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