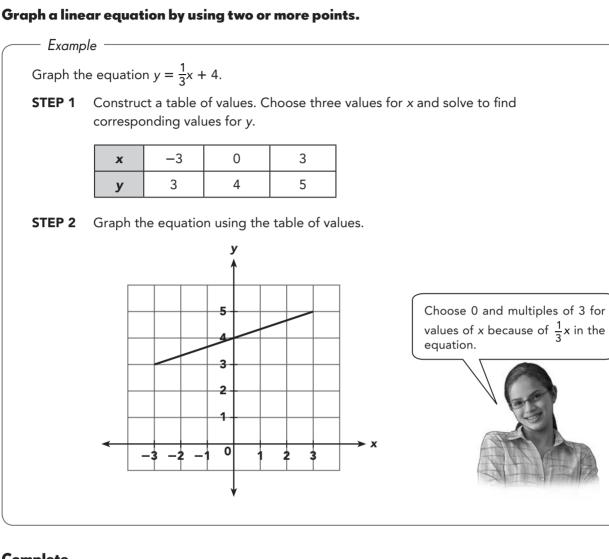
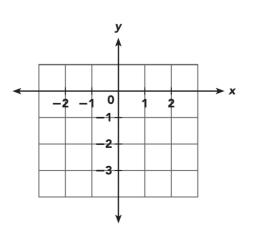
Lesson 4.4 Sketching Graphs of Linear Equations



Complete.

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

x	-2	0	2
у			

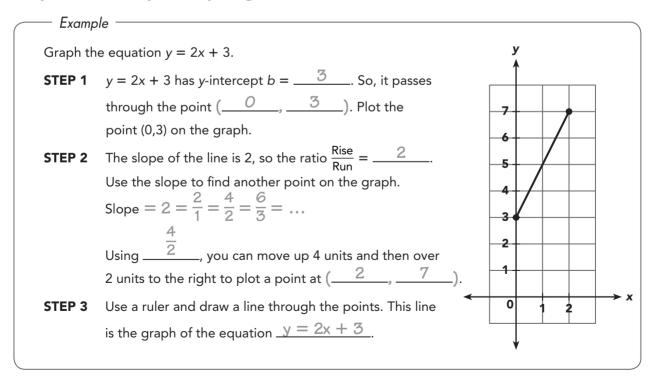


Graph each linear equation by using two or more points.

2.
$$y = \frac{2}{5}x + 2$$

3. $y = \frac{5}{3}x - 4$

Graph of a linear equation by using *m* and *b*.



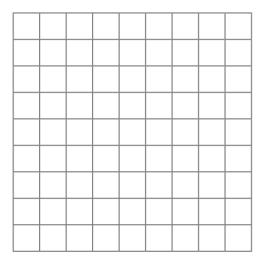
Name: _

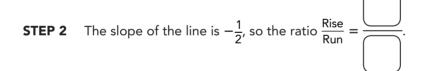
Complete.

- 4. Graph the equation $y = -\frac{1}{2}x + 3$. Use 1 grid square to represent 1 unit on both axes for each interval.
 - **STEP 1** $y = -\frac{1}{2}x + 3$ has *y*-intercept b =_____.

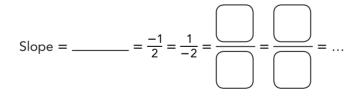
So, it passes through the point (_____, ____).

Plot the point (_____, ____) on the graph.





Use the slope to find another point on the graph.



Using _____, you can move down _____ units and then over

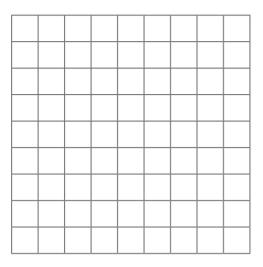
_____ units to the right to plot a point at (_____, ____).

STEP 3 Use a ruler and draw a line through the points. This line is the graph of the equation _____.

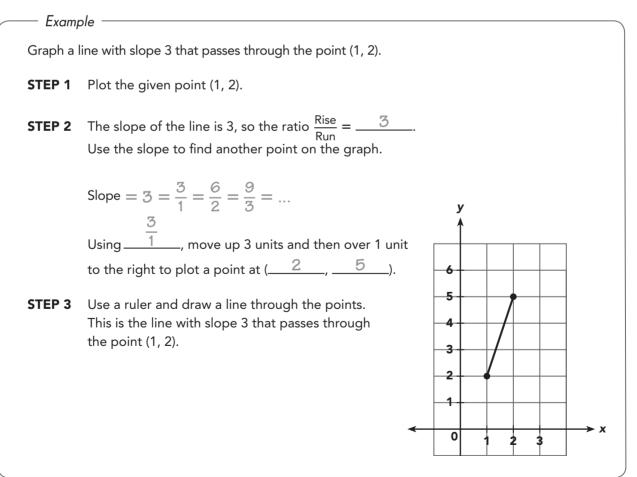
Name: _

Graph. Use 1 grid square to represent 1 unit on both axes for each interval.

5. Graph the equation y = -x + 4.



Graph of a linear equation given *m* and a point.

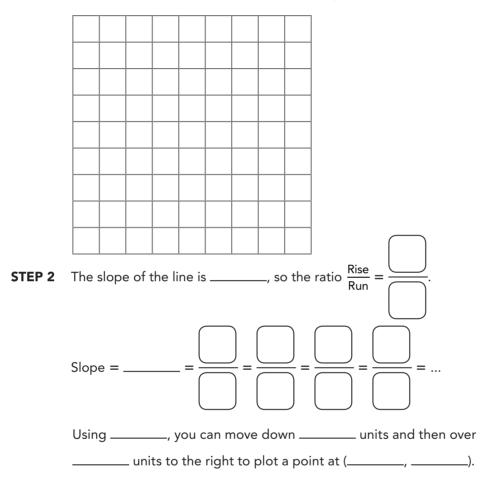


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Complete.

- **6.** Graph a line with slope –1 that passes through the point (–2, 3). Use 1 grid square to represent 1 unit on both axes for each interval.
 - **STEP 1** Plot the point (_____, ____) on the graph.



STEP 3 Use a ruler and draw a line through the points.

Graph the linear equation.

Graph a line with slope ¹/₂ that passes through the point (-1, -2). Use 1 grid square to represent 1 unit on both axes for each interval.

