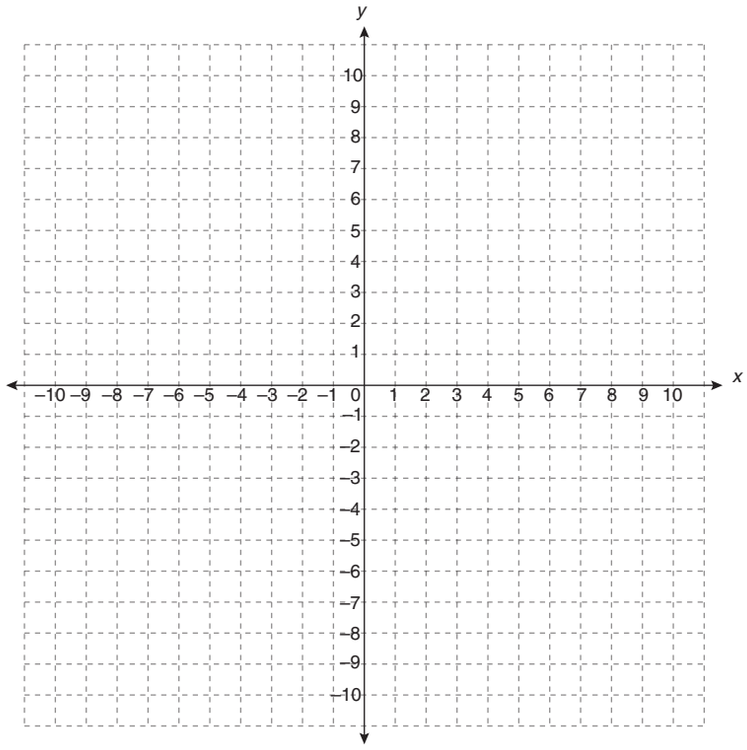
The relationships between the graph of a relation and its equation in slope-intercept form can also be used to quickly sketch the graph when the equation is known. Plot the $y$-intercept and then use the slope to determine another point on the graph. Draw a line to connect the two points.

Only two points are required to graph a linear relation. Determining a third point helps to catch errors. If a linear equation is used to determine three points that don't line up on a graph, you will know you've made an error.

## Check Up

1. Sketch the graph of $y = -\frac{4}{3}x + 2$ on the grid provided.



☑ Compare your answer.

1. Sketch the graph of $y = -\frac{4}{3}x + 2$ on the grid provided.

The $y$-intercept is 2, so begin by plotting the point (0,2). Use the slope $-\frac{4}{3}$ to determine two or more other points. Use a straightedge to draw the graph of the relation.