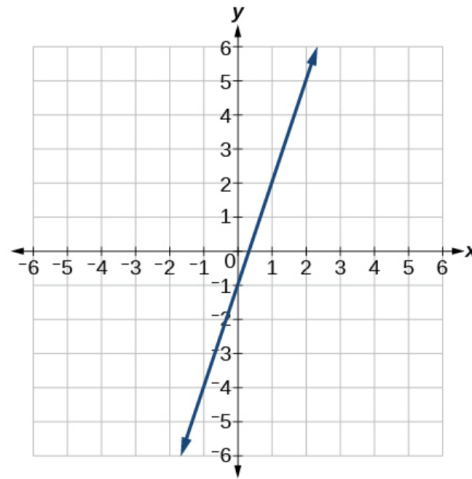


Exercise 44

For the following exercises, write an equation for the lines graphed.

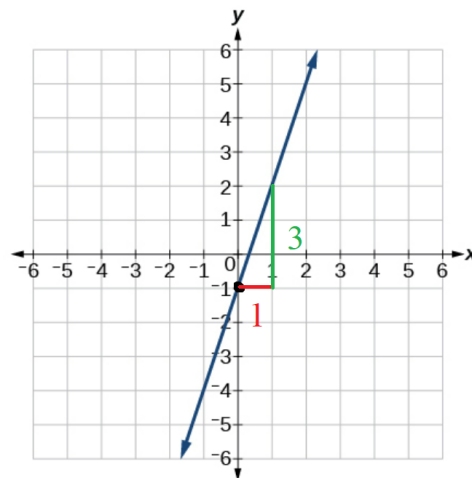


Solution

The general equation of a line is

$$y = mx + b.$$

Determine the slope of the line first.



It's the ratio of the "rise" to "run."

$$m = \frac{3}{1} = 3$$

Notice that the line crosses the y -axis at -1 , so $b = -1$. Therefore,

$$y = 3x - 1.$$