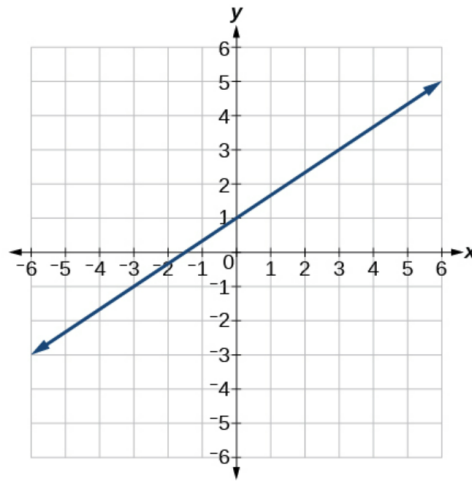


Exercise 41

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

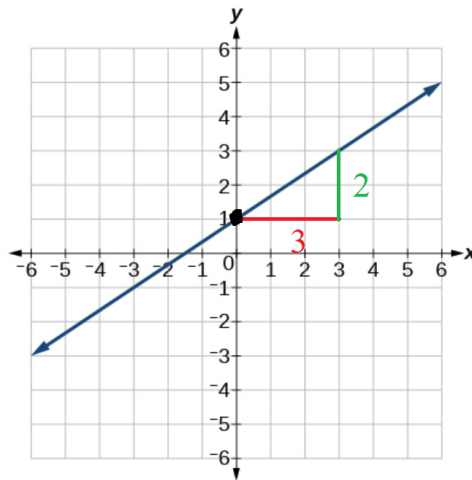


Solution

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."

$$m = \frac{2}{3}$$

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

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