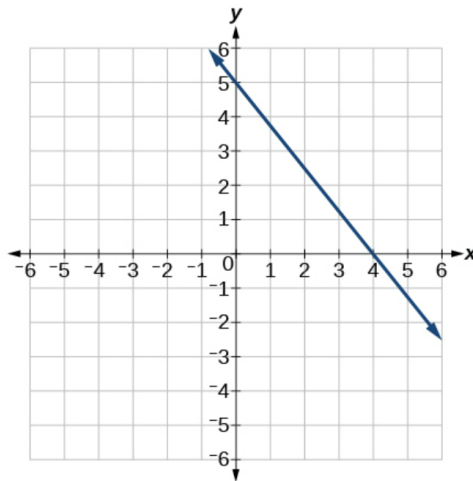


## Exercise 42

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

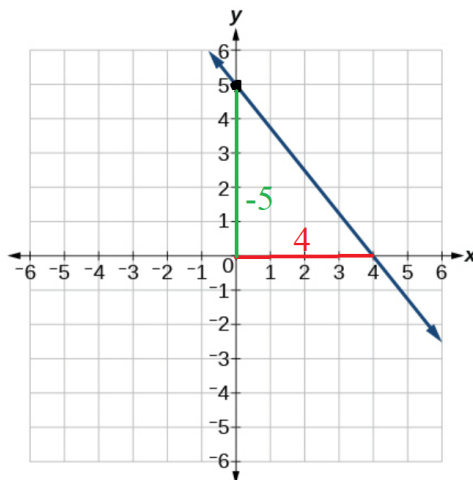


### Solution

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."

$$m = \frac{-5}{4} = -\frac{5}{4}$$

Notice that the line crosses the  $y$ -axis at 5, so  $b = 5$ . Therefore,

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