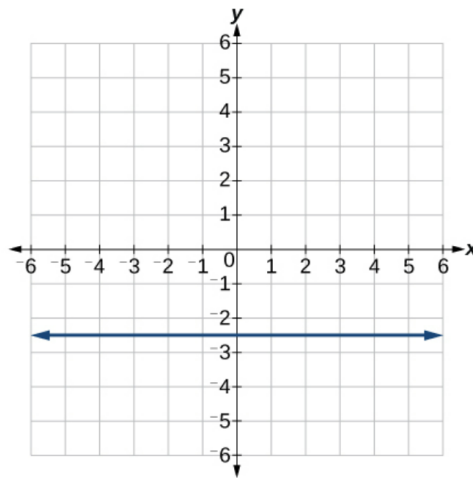## Exercise 46

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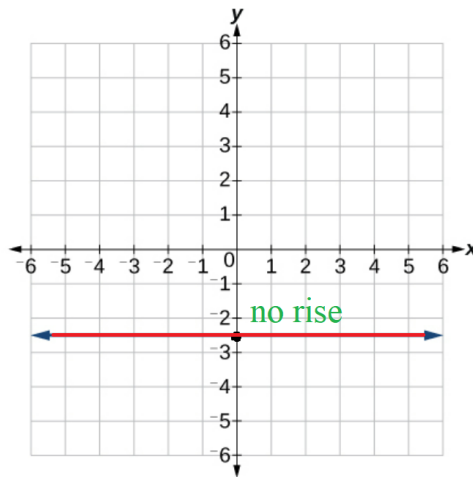

Solution

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."

$$m = \frac{0}{\text{run}} = 0$$

Notice that the line crosses the y-axis at -2.5, so $b = -2.5$. Therefore,

$$y = -2.5.$$