

Exercise 8

In Exercises 7–16, sketch the graph of the equation by point plotting.

$$y = 5 - 2x$$

Solution

Evaluate y for several integer values of x .

$$x = -3: \quad y = 5 - 2(-3) = 11$$

$$x = -2: \quad y = 5 - 2(-2) = 9$$

$$x = -1: \quad y = 5 - 2(-1) = 7$$

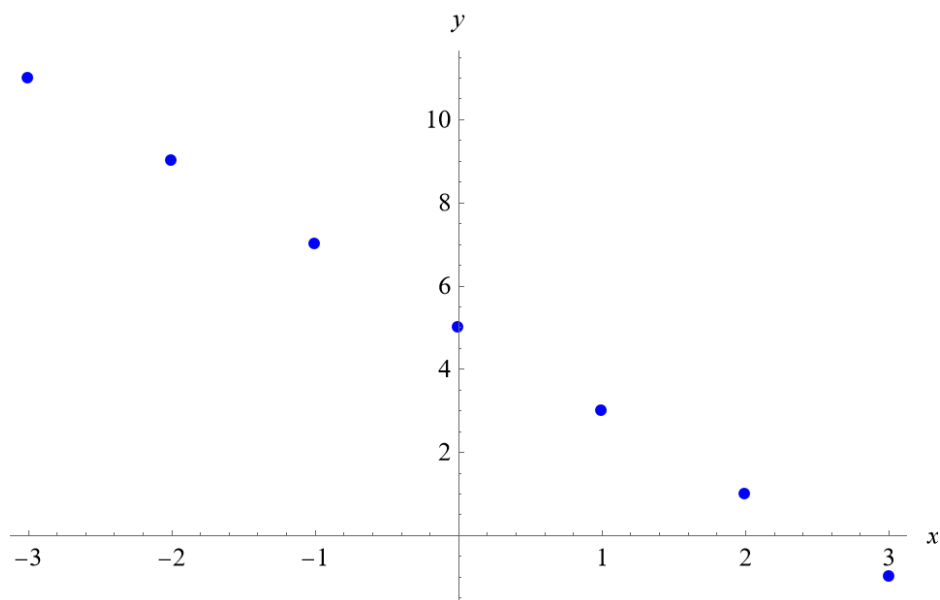
$$x = 0: \quad y = 5 - 2(0) = 5$$

$$x = 1: \quad y = 5 - 2(1) = 3$$

$$x = 2: \quad y = 5 - 2(2) = 1$$

$$x = 3: \quad y = 5 - 2(3) = -1$$

The points to plot are $(-3, 11)$, $(-2, 9)$, $(-1, 7)$, $(0, 5)$, $(1, 3)$, $(2, 1)$, and $(3, -1)$.



Connect the dots to get the graph of $y = 5 - 2x$.

