

How to Graph Linear Functions?

- 1. Using two points
- 2. Using the x- and y-intercepts
- 3. Using the slope and a point
- 4. Using the slope and the y-intercept

Using Two Points:

- 1. Assign any two values for  $x$ .
- 2. Find the values for  $y$  to determine the ordered pairs of two points.
- 3. Plot the two points and connect them.

Using the x- and y-intercepts:

- 1. Let  $f(x) = 0$  to find the x-intercept.
- 2. Let  $x = 0$  to find the y-intercept.
- 3. Plot the two points and connect them.

Using the Slope and a Point:

- 1. Plot the given point.
- 2. Use the slope to get the other point.
- 3. Connect the two points.

Using the Slope and the y-intercept:

- 1. Determine the slope and the y-intercept, then plot the y-intercept.
- 2. Use the slope to get the other point.
- 3. Connect the two points.

Practice Exercises 2.4.3

Graph the following functions using the four methods.

1.  $f(x) = 3x + 1$

3.  $f(x) = \frac{4}{3}x + 2$
2.  $f(x) = \frac{3}{2}x + 3$

4.  $f(x) = -2x - 1$

Activity 2.4.3

- 1. Graph the function  $f(x) = 2x + 1$  using two points. Let  $x_1 = 0$  and  $x_2 = 1$ .
- 2. Graph the function  $f(x) = -\frac{1}{2}x + 3$  using two points. Let  $x_1 = 2$  and  $x_2 = -2$ .
- 3. Graph the function  $f(x) = \frac{4}{3}x - 4$  using the x- and y-intercepts.

How to Graph Linear Functions?

- 1. Using two points
- 2. Using the x- and y-intercepts
- 3. Using the slope and a point
- 4. Using the slope and the y-intercept

Using Two Points:

- 1. Assign any two values for  $x$ .
- 2. Find the values for  $y$  to determine the ordered pairs of two points.
- 3. Plot the two points and connect them.

Using the x- and y-intercepts:

- 1. Let  $f(x) = 0$  to find the x-intercept.
- 2. Let  $x = 0$  to find the y-intercept.
- 3. Plot the two points and connect them.

Using the Slope and a Point:

- 1. Plot the given point.
- 2. Use the slope to get the other point.
- 3. Connect the two points.

Using the Slope and the y-intercept:

- 1. Determine the slope and the y-intercept, then plot the y-intercept.
- 2. Use the slope to get the other point.
- 3. Connect the two points.

Practice Exercises 2.4.3

Graph the following functions using the four methods.

1.  $f(x) = 3x + 1$

3.  $f(x) = \frac{4}{3}x + 2$
2.  $f(x) = \frac{3}{2}x + 3$

4.  $f(x) = -2x - 1$

Activity 2.4.3

- 1. Graph the function  $f(x) = 2x + 1$  using two points. Let  $x_1 = 0$  and  $x_2 = 1$ .
- 2. Graph the function  $f(x) = -\frac{1}{2}x + 3$  using two points. Let  $x_1 = 2$  and  $x_2 = -2$ .
- 3. Graph the function  $f(x) = \frac{4}{3}x - 4$  using the x- and y-intercepts.

How to Graph Linear Functions?

- 1. Using two points
- 2. Using the x- and y-intercepts
- 3. Using the slope and a point
- 4. Using the slope and the y-intercept

Using Two Points:

- 1. Assign any two values for  $x$ .
- 2. Find the values for  $y$  to determine the ordered pairs of two points.
- 3. Plot the two points and connect them.

Using the x- and y-intercepts:

- 1. Let  $f(x) = 0$  to find the x-intercept.
- 2. Let  $x = 0$  to find the y-intercept.
- 3. Plot the two points and connect them.

Using the Slope and a Point:

- 1. Plot the given point.
- 2. Use the slope to get the other point.
- 3. Connect the two points.

Using the Slope and the y-intercept:

- 1. Determine the slope and the y-intercept, then plot the y-intercept.
- 2. Use the slope to get the other point.
- 3. Connect the two points.

Practice Exercises 2.4.3

Graph the following functions using the four methods.

1.  $f(x) = 3x + 1$

3.  $f(x) = \frac{4}{3}x + 2$
2.  $f(x) = \frac{3}{2}x + 3$

4.  $f(x) = -2x - 1$

Activity 2.4.3

- 1. Graph the function  $f(x) = 2x + 1$  using two points. Let  $x_1 = 0$  and  $x_2 = 1$ .
- 2. Graph the function  $f(x) = -\frac{1}{2}x + 3$  using two points. Let  $x_1 = 2$  and  $x_2 = -2$ .
- 3. Graph the function  $f(x) = \frac{4}{3}x - 4$  using the x- and y-intercepts.

How to Graph Linear Functions?

- 1. Using two points
- 2. Using the x- and y-intercepts
- 3. Using the slope and a point
- 4. Using the slope and the y-intercept

Using Two Points:

- 1. Assign any two values for  $x$ .
- 2. Find the values for  $y$  to determine the ordered pairs of two points.
- 3. Plot the two points and connect them.

Using the x- and y-intercepts:

- 1. Let  $f(x) = 0$  to find the x-intercept.
- 2. Let  $x = 0$  to find the y-intercept.
- 3. Plot the two points and connect them.

Using the Slope and a Point:

- 1. Plot the given point.
- 2. Use the slope to get the other point.
- 3. Connect the two points.

Using the Slope and the y-intercept:

- 1. Determine the slope and the y-intercept, then plot the y-intercept.
- 2. Use the slope to get the other point.
- 3. Connect the two points.

Practice Exercises 2.4.3

Graph the following functions using the four methods.

1.  $f(x) = 3x + 1$

3.  $f(x) = \frac{4}{3}x + 2$
2.  $f(x) = \frac{3}{2}x + 3$

4.  $f(x) = -2x - 1$

Activity 2.4.3

- 1. Graph the function  $f(x) = 2x + 1$  using two points. Let  $x_1 = 0$  and  $x_2 = 1$ .
- 2. Graph the function  $f(x) = -\frac{1}{2}x + 3$  using two points. Let  $x_1 = 2$  and  $x_2 = -2$ .
- 3. Graph the function  $f(x) = \frac{4}{3}x - 4$  using the x- and y-intercepts.