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.
- \mathbf{z} . 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.
- Connect the two points.

Practice Exercises 2.4.3

Graph the following functions using the four methods.

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

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

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

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 $x_1 = 0$
- 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.

Lesson 2.4.3: Graphing Linear Functions

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Using the x- and y-intercepts:

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Using the Slope and a Point:

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

Using the Slope and the y-intercept:

- 1. Determine the slope and the y-intercept, then plot the y-intercept.
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Lesson 2.4.3: Graphing Linear Functions

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Using the Slope and the y-intercept:

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