

Name: _____

Date: _____

Learning Goal 4.2

I can graph and describe linear relations.

There are 3 ways to represent a line for graphing

1.

2.

3.

Example 1 Graph the following lines on the grid provided.

$$y = 3x + 2$$

$$y = \frac{1}{3}x + 2$$

$$y = -3x - 4$$

$$y = -\frac{1}{3}x - 4$$

Example 2 Graph the following lines on the grid provided.

$$x + 4y = 8$$

$$4x + y = 8$$

$$\underline{\hspace{1cm}}x + \underline{\hspace{1cm}}y = \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}}x + \underline{\hspace{1cm}}y = \underline{\hspace{1cm}}$$

Example 3 Graph the following lines on the grid provided.

$$y - 2 = \frac{1}{2}(x - 6)$$

$$y + 2 = \frac{1}{2}(x + 6)$$

$$y - 2 = -2(x - 6)$$

$$y + 2 = -2(x + 6)$$

Example 4 Graph the following lines on the grid provided.

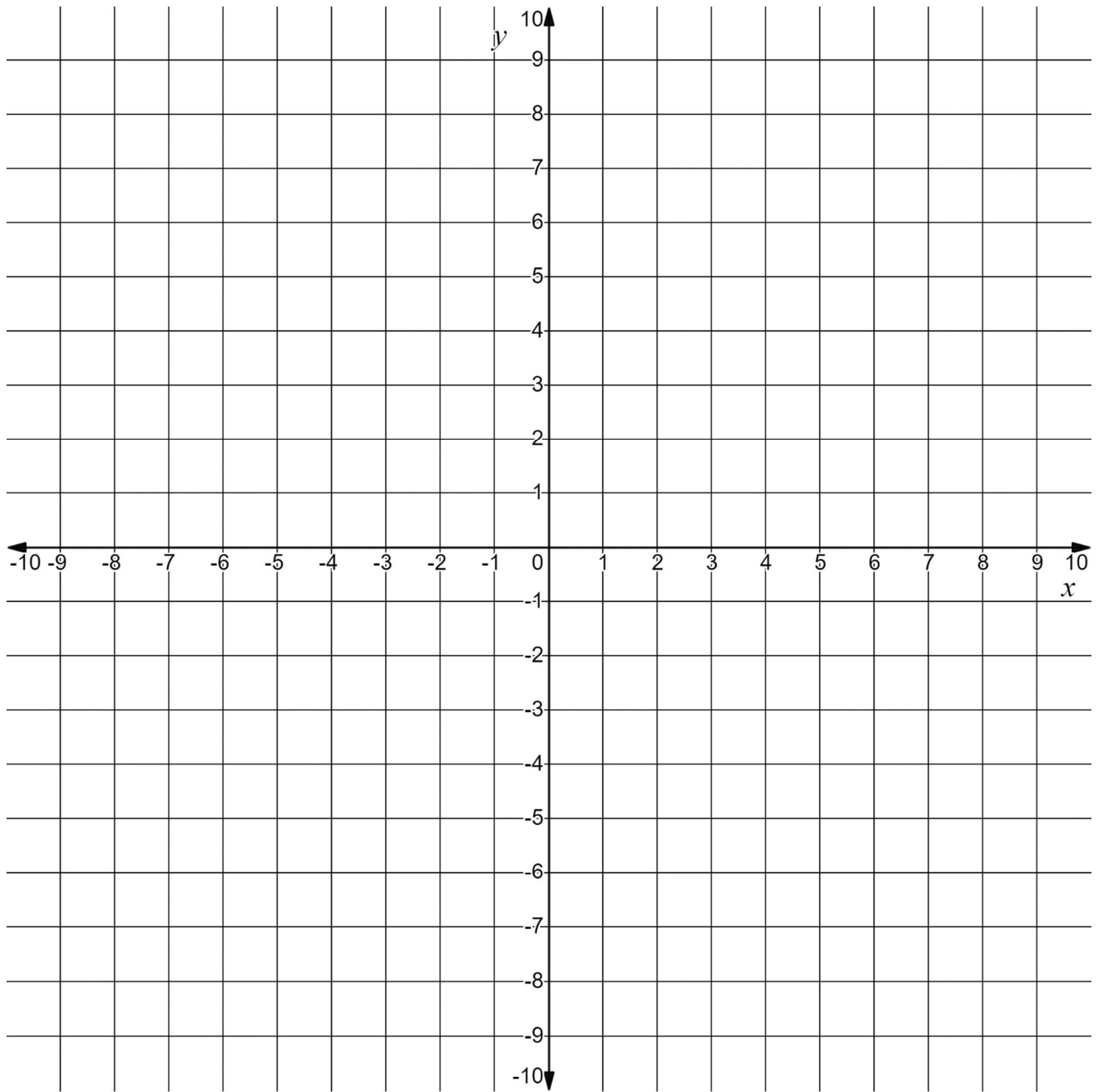
$$y - 2 = 0$$

$$y = -2$$

$$x + 3 = 0$$

$$x = 3$$

Example _____



Example _____

