

Define y-intercept: The y-intercept is where a line crosses the y-axis.

Define slope: The slope of a line shows how steep a straight line is. It is represented by the ratio:  $\frac{\text{rise}}{\text{run}}$ .

**Directions:** Graph the following linear equations.

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

$$y = x - 2 \text{ or } y = |x - 2$$

Step #1: Graph the **1st equation** (use a ruler)

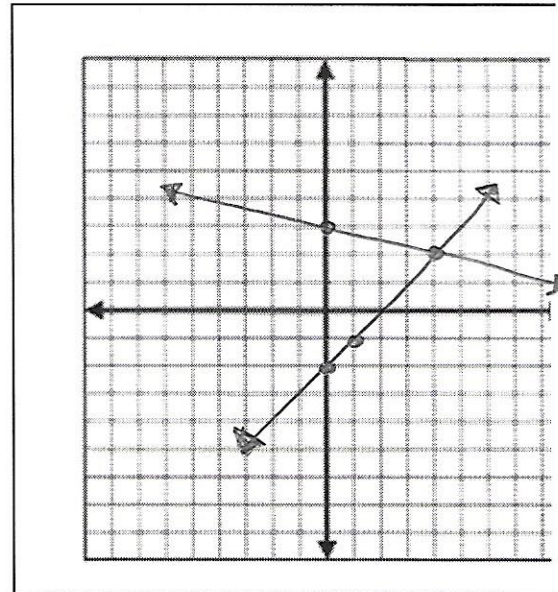
$$m = \frac{-1 \text{ down } 1}{4 \text{ rt. } 4}$$

$$b = \underline{3}$$

Step #2: Graph the **2nd equation** (use a ruler)

$$m = \frac{1 \text{ up } 1}{1 \text{ right } 1}$$

$$b = \underline{-2}$$



Step #3: Identify Solution

Circle One: one no infinite

Step #4: Explanation of the Solution

The two given equations intersect at one point. This point is the solution that is true for both equations.