

Directions: Graph the following linear equations.

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

$$y = \frac{4}{6}x - 2$$

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

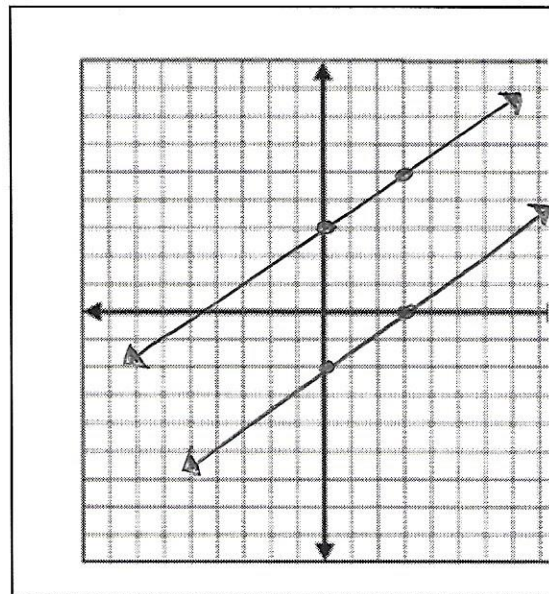
$$m = \frac{2}{3}$$

$$b = 3$$

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

$$m = \frac{4}{6} \text{ or } \frac{2}{3}$$

$$b = -2$$



Step #3: Identify Solution

Circle One: one no infinite

Step #4: Explanation of the Solution

The graphs do not intersect, which means there are no solutions that are true for both equations.

Directions: Suppose you are solving a system of linear equation and get the given result. Match the result with the number of solutions the system has.

A $-7 = 7$

A. No Solution

C $-3 = -3$

B. One Solution

B $y = 10$

C. Infinitely Many Solutions