

Graphically

Example 2:

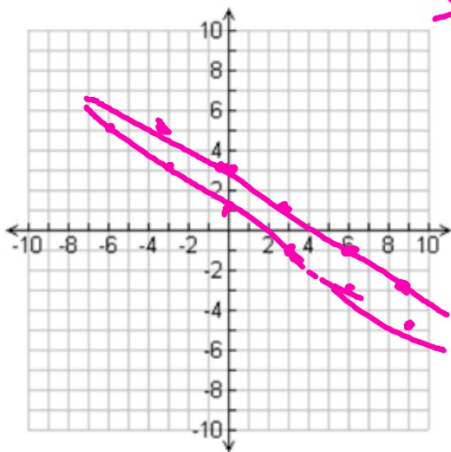
$$y = -\frac{2}{3}x + 1$$

Parallel lines
Same Slope
No Solution

$$2x + 3y = 9$$

$$-2x \quad -2x \quad \frac{3y}{3} = \frac{-2x+9}{1}$$

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



Graphically

Example 3:

$$y = -2x + 3$$

Same line
Infinitely many
Solutions

$$4x + 2y = 6$$

$$\begin{array}{r} -4x \\ 2y = -4x + 6 \end{array}$$

$$y = -2x + 3$$

