

October 2nd, 2007

Solve by Graphing

Find the intersection point

No solution \rightarrow parallel lines - same slope, never intersect

Infinite solution \rightarrow same line

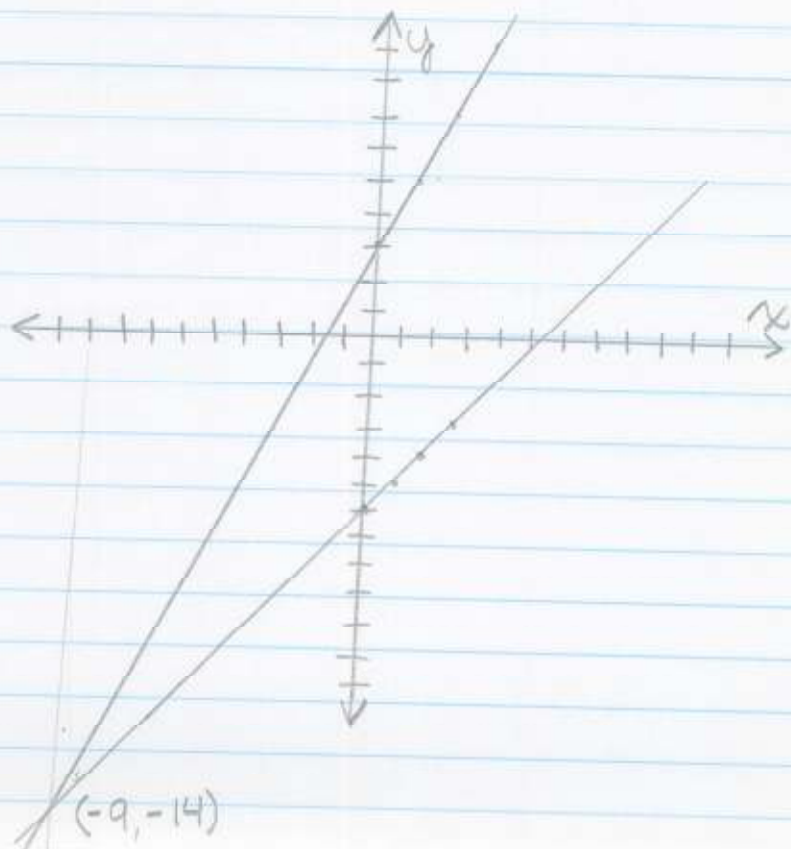
$$\begin{aligned} \text{Ex. } y &= 2x + 4 \\ 2y &= 4x + 8 \end{aligned}$$

One solution \rightarrow where the lines intersect at one point

Solve by Graphing

$$\begin{aligned} \text{Ex 1: } y &= x - 6 \\ y &= 2x + 3 \end{aligned}$$

$$\therefore (-9, -14)$$

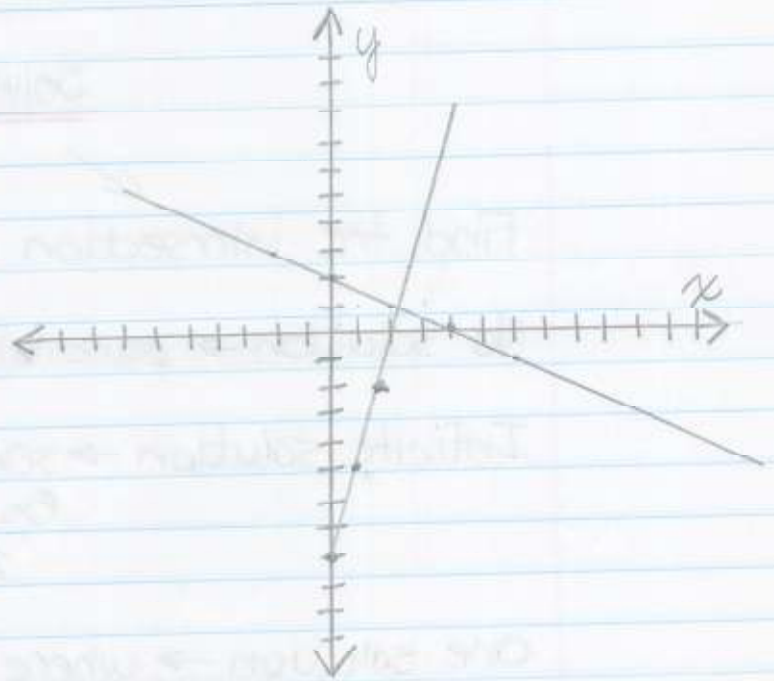


$$\text{Ex 2: } x + 2y = 4$$

$$y = 3x - 8$$

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

$$\therefore (2, 1)$$



$$2 - 2 = 4 \Rightarrow x = 2$$

$$8 - 2 = 6$$

$$(4) - (2) = 2$$