

Systems of Equations: Lesson 1

Introduction and Solving by Graphing: Notes

Name: answer key!

MATH ALL

Systems of Equations:

More than one equation governs more than one variable.

Which of these points are a solution to the system?

(0, 6), (4, 18), or (1, 3)?

$$\begin{cases} y = 5x - 2 \\ y = -3x + 6 \end{cases}$$

(0, 6): $6 \stackrel{?}{=} 5(0) - 2$ $6 \neq -2$ ❌

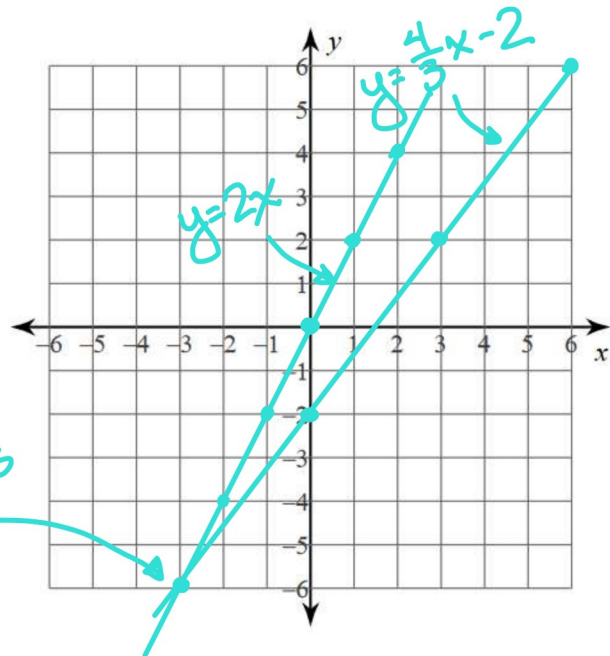
(4, 18): $18 \stackrel{?}{=} 5(4) - 2$ $18 = 18$ 😊
 $18 \stackrel{?}{=} -3(4) + 6$ $18 \neq -6$ ❌

(1, 3)

(1, 3): $3 \stackrel{?}{=} 5(1) - 2$ $3 = 3$ 😊
 $3 \stackrel{?}{=} -3(1) + 6$ $3 = 3$ 😊

What is the solution to the system:

$$\begin{cases} y = \frac{4}{3}x - 2 \\ y = 2x \end{cases}$$



intersection is the winner!
(-3, -6)