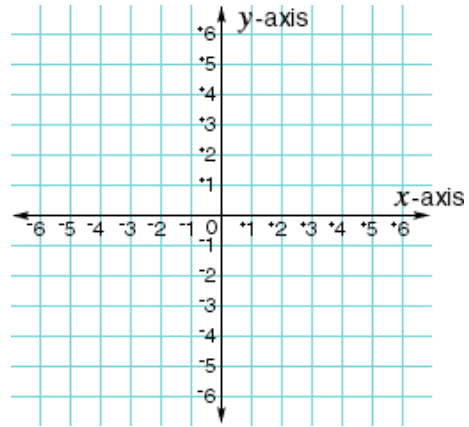


Section 5-2: Solving Systems Using Tables or Graphs

Warm-up: Graph the following equations on the same graph.

a. $y = \frac{2}{3}x - 5$

b. $y = -x + 3$



How can we solve a system?

System:

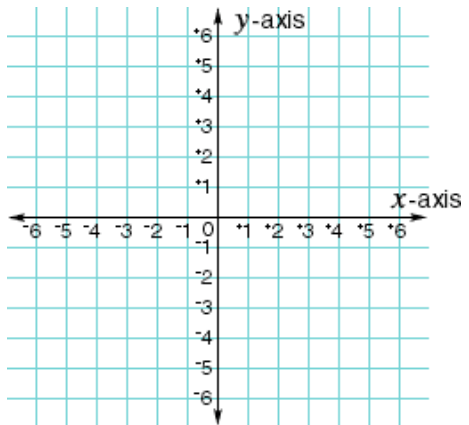
Solution Set of a System:

Example 1; Solve the system $\begin{cases} y = 4x + 8 \\ y = 3x + 5 \end{cases}$.

a. Tables

x	y = 4x + 8	y = 3x + 5
-2	0	1
-1	4	2
0	8	5
1	12	8
2	16	11

b. Graphing



c. Graphing Calculator

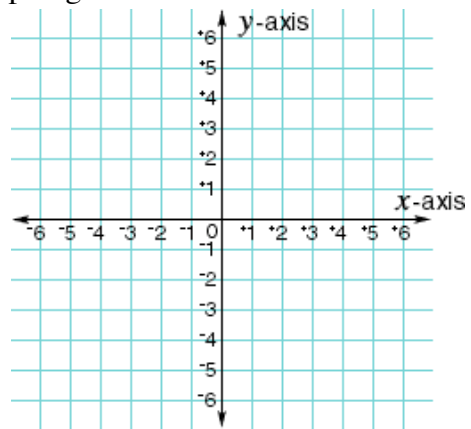
Example 2: Matt Mitarnowski wants to enclose a 400-square meter rectangular garden with 70 meters of fencing. To do this, Matt must use one side of his barn as a side of the garden. What can the dimensions of the garden be?

Example 3: Solve $\begin{cases} y = 5x \\ y = -3x + 1 \end{cases}$.

a. Tables

x	y = 5x	y = -3x + 1

b. Graphing



c. Graphing Calculator

Homework:

"Lack of money is no obstacle. Lack of an idea is an obstacle." - Ken Hakuta