

ALGEBRA II
Chapter 3 section 2
Solve Linear Systems Algebraically
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FOCUS:

How do you solve a system of linear equations algebraically?

VOCAB:

Substitution method: _____

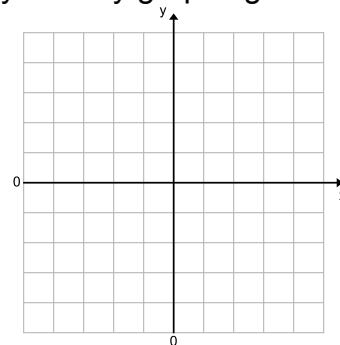
Elimination method: _____

WARM – UP:

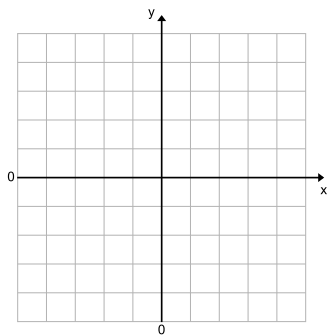
1. Evaluate $-3x - 5y$ for $x = -3$ and $y = 4$ _____

2. Solve the system by graphing.

$$\begin{aligned}x + y &= 2 \\ 2x + y &= 3\end{aligned}$$



3. Twice a number x plus a number y is 3. The number y subtracted from three times the number x is 7. Find x and y by graphing.



NOTES:

Solve the system using the substitution method.

$$3x + 2y = 1$$

$$4x + 3y = -2$$

$$-2x + y = 4$$

$$x + 5y = -9$$

Solve the system using the elimination method.

$$8x + 2y = 4$$

$$-2x + 3y = 13$$

$$3x + 3y = -15$$

$$5x - 9y = 3$$

At a pizza restaurant it costs \$4 to make a small pizza that sells for \$12, and it costs \$6 to make a large pizza that sells for \$15. In one week, the restaurant spent a total of \$1100 making pizzas and sold all of them for \$2910. How many small pizzas were sold?

Solve the linear system.

$$2x - 3y = 4$$

$$6x - 9y = 8$$

$$x - y = 4$$

$$-6x + 6y = -24$$

Let's see if you comprehended what we worked on in class...

Try _____ for homework