

Name: _____

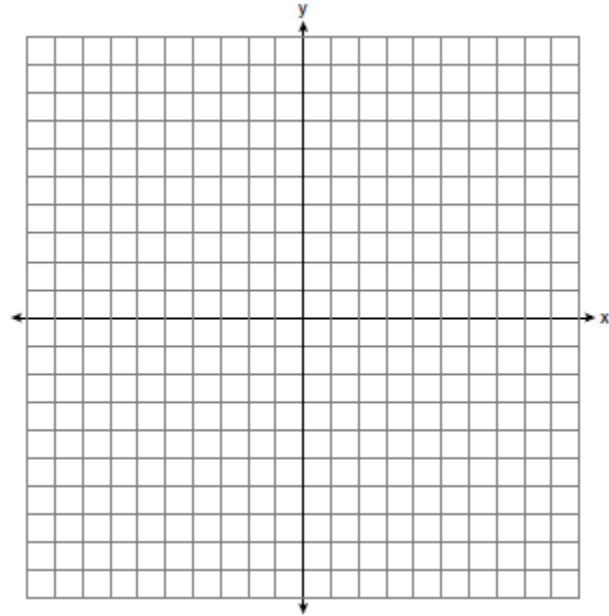
Solving a System of Linear Equations in Two Variables

Graphing

Graph the system of linear equations to find the solution:

$$y = 5x + 1$$

$$y = x - 3$$



Substitution

Solve the system of linear equations by substitution.

$$Y = 5x + 1$$

$$Y = x - 3$$

Elimination/Linear Combination

Solve the system of equations by elimination/linear combination.

$$Y = 5x + 1$$

$$Y = x - 3$$

Verbal

- 1) What is the solution of this system?
- 2) Explain what the solution means in a sentence.
- 3) Which method did you find the easiest between graphing and substitution? Why?
- 4) What step(s) must you take before you can use the elimination/linear combination method for this example?

Name: _____

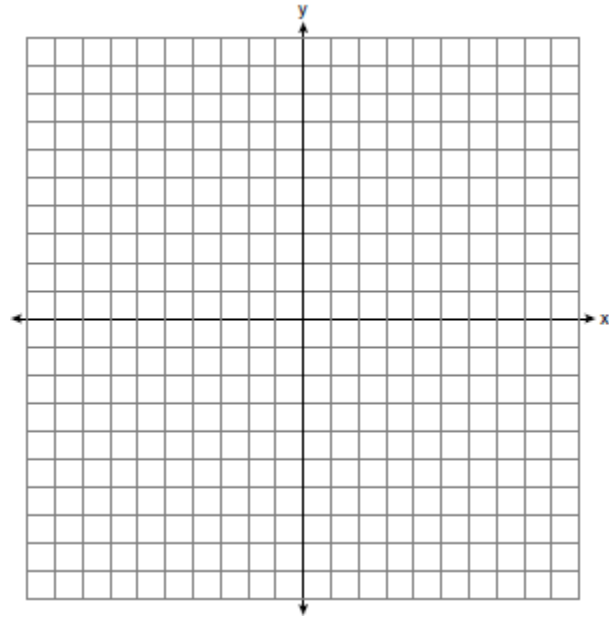
Solving a System of Linear Equations in Two Variables

Graphing

Graph the system of linear equations to find the solution:

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

$$Y = x + 6$$



Substitution

Solve the system of linear equations by substitution.

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

$$Y = x + 6$$

Elimination/Linear Combination

Solve the system of equations by elimination/linear combination.

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

$$Y = x + 6$$

Verbal

- 1) What is the solution of this system?
- 2) Explain what the solution means in a sentence.
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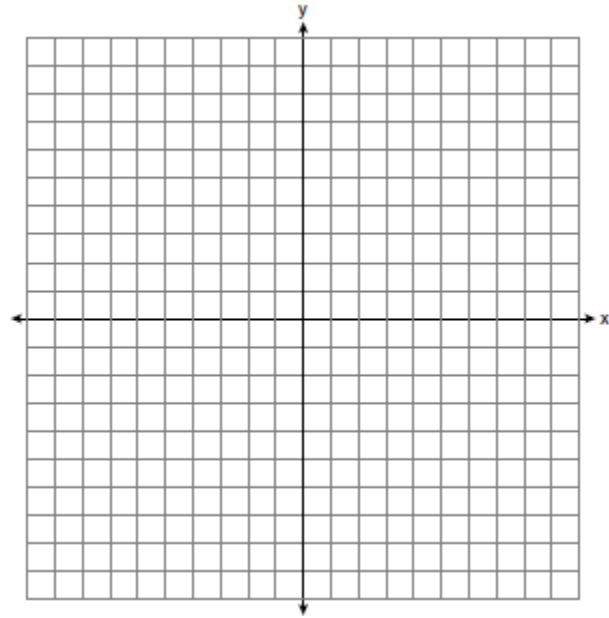
Solving a System of Linear Equations in Two Variables

Graphing

Graph the system of linear equations to find the solution:

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

$$2x + y = 8$$



Substitution

Solve the system of linear equations by substitution.

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

$$2x + y = 8$$

Elimination/Linear Combination

Solve the system of equations by elimination/linear combination.

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

$$2x + y = 8$$

Verbal

- 1) What is the solution of this system?
- 2) Which method did you find the easiest? Why?
- 3) Compare and contrast each method to solve this system.

Name: _____

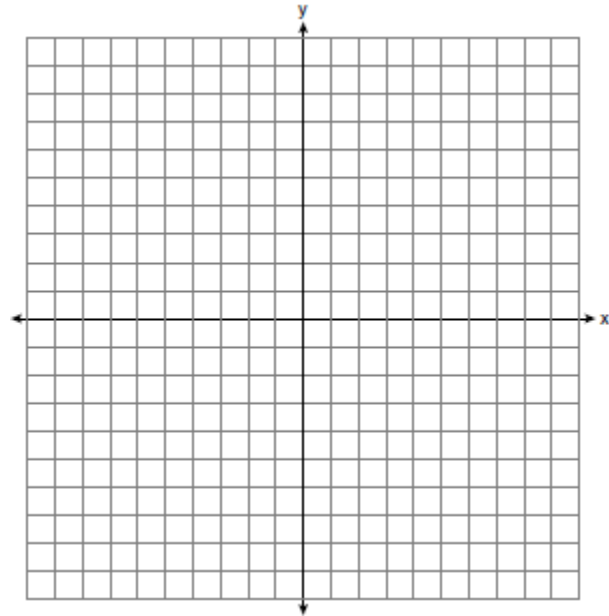
Solving a System of Linear Equations in Two Variables

Graphing

Graph the system of linear equations to find the solution:

$$3y + x = -1$$

$$4x + 12y = 0$$



Substitution

Solve the system of linear equations by substitution.

$$3y + x = -1$$

$$4x + 12y = 0$$

Elimination/Linear Combination

Solve the system of equations by elimination/linear combination.

$$3y + x = -1$$

$$4x + 12y = 0$$

Verbal

- 1) What is the solution of this system?
- 2) Explain what the solution means in a sentence.
- 3) Which method did you find the easiest? Why?
- 4) What step(s) must you take before you can use the elimination/linear combination method for this example?

Solving a System of Linear Equations in Two Variables

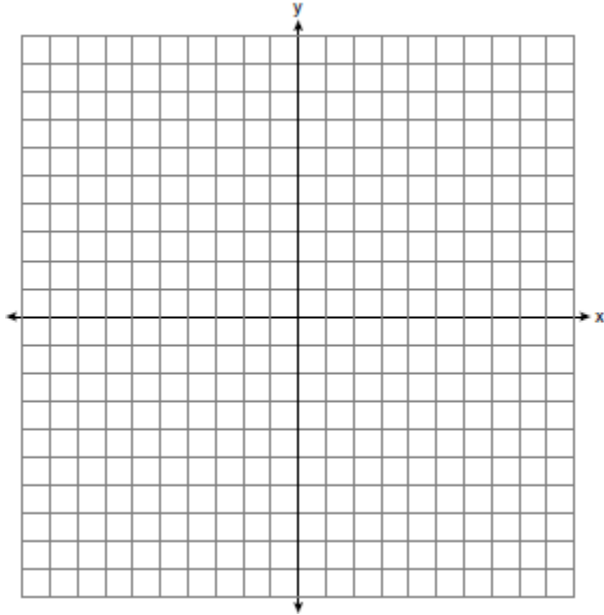
Use a different method to solve each system...your choice.

$$\begin{aligned}x + y &= 9 \\ y &= 2x - 6\end{aligned}$$

$$\begin{aligned}y &= 5x + 4 \\ y &= 2x + 7\end{aligned}$$

$$\begin{aligned}3x + 5y &= 10 \\ x - 5y &= -10\end{aligned}$$

Graph:



Substitution:

Elimination/Linear Combination:

Verbal

- 1) For each system, which method did you choose to solve them?