

Name:

Answers!

Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

How many solutions does the system of equations below have?

$$y = \frac{1}{2}x - 4$$

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

same slope

different y-int.

parallel!

- a) One Solution
- b) No Solutions
- c) Infinite Solutions

Question 02

What is the solution to the system of equations below?

$$y = 2x + 5$$

$$y = x + 8$$

$$2x + 5 = x + 8$$

$$x = 3$$

$$y = x + 8$$

$$y = 3 + 8$$

$$y = 11$$

3, 11

Question 03

How many solutions does the system of equations below have?

$$y = 0.5x - 9$$

$$y = \frac{1}{2}x - 9$$

same slope

same y-int

same line!

- a) One Solution
- b) No Solutions
- c) Infinite Solutions

Question 04

What is the solution to the system of equations below?

$$y = 4x - 5$$

$$y = x + 1$$

$$4x - 5 = x + 1$$

$$3x = 6$$

$$x = 2$$

$$y = x + 1$$

$$y = 2 + 1$$

$$y = 3$$

2, 3

Question 05

What is the solution to the system of equations below?

$$y = 3x + 8$$

$$y = 5x - 12$$

$$5x - 12 = 3x + 8$$

$$-3x + 12 -3x + 12$$

$$2x = 20$$

$$x = 10$$

$$y = 3x + 8$$

$$y = 3(10) + 8$$

$$y = 38$$

Question 06

What is the solution to the system of equations below?

$$y = 2x + 5$$

$$y = x + 1$$

$$2x + 5 = x + 1$$

$$-x - 5 -x - 5$$

$$x = -4$$

$$y = -4 + 1$$

$$y = -3$$

Question 07

What is the solution to the system of equations below?

$$y = -2x + 8$$

$$y = 4x - 4$$

$$4x - 4 = -2x + 8$$

$$+2x + 4 + 2x + 4$$

$$6x = 12$$

$$x = 2$$

$$y = 4x - 4$$

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

$$y = 4$$

Question 08

What is the solution to the system of equations below?

$$y = 5x + 6$$

$$y = 2x + 12$$

$$5x + 6 = 2x + 12$$

$$-2x - 6 -2x - 6$$

$$3x = 6$$

$$x = 2$$

$$y = 5(2) + 6$$

$$y = 16$$

Question 09

What is the solution to the system of equations below?

$$y = -2x + 4$$

$$y = -5x - 5$$

$$-2x + 4 = -5x - 5$$

$$+5x - 4 + 5x - 4$$

$$3x = -9$$

$$x = -3$$

$$y = -2x + 4$$

$$y = -2(-3) + 4$$

$$y = 6 + 4$$

$$y = 10$$

Question 10

What is the solution to the system of equations below?

$$y = -2x + 5$$

$$y = 2x + 25$$

$$2x + 25 = -2x + 5$$

$$+2x - 25 + 2x - 25$$

$$4x = -20$$

$$x = -5$$

$$y = 2(-5) + 25$$

$$y = -10 + 25$$

$$y = 15$$