

Journal Writing - Systems of Linear Equations

Solve

Solve the system using elimination:

$(-1, 0)$

$$4x + y = -4$$

$$-x - y = 1$$

$$\frac{3x}{3} = \frac{-3}{3}$$

$$x = -1$$

$$4(-1) + y = -4$$

$$-4 + y = -4$$

$$\frac{+4}{+4} \quad \frac{+4}{+4}$$

$$y = 0$$

Vocabulary:

System of equations

Opposite coefficients

Eliminate

Addition

Solution

Write about it

and use this

vocabulary

Explain why you did what you did...

I used elimination to solve this system of equations.

The y's had opposite coefficients so they were

eliminated when I added the equations

together. This gave me a value for x that

I substituted back into one of the original

equations. After I found the y I wrote

my solution as an ordered pair.

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Solve

Solve the system using substitution:

$$4x + (-x - 1) = -4$$

$$4x - x - 1 = -4$$

$$3x - 1 = -4$$

$$\frac{3x}{3} = \frac{-3}{3}$$

$$x = -1$$

$$4x + y = -4$$

$$y = -x - 1$$

$$y = -(-1) - 1$$

$$y = 1 - 1$$

$$y = 0$$

Vocabulary:

System of equations

Substitute

Combine like terms

Solution

Distribute

Write about it

and use this

vocabulary



Come up with a story or way to help remember the four types of slope...

This is a system of equations. There were
like terms I had to combine to find the
solution. I did not have to distribute.
I had to substitute.