

I'm not robot!

$$y = x + 1 \quad y = -x$$

$$\begin{array}{r} y = x + 1 \\ + y = -x \\ \hline 2y = 1 \\ y = \frac{1}{2} \end{array} \quad \left. \vphantom{\begin{array}{r} y = x + 1 \\ + y = -x \\ \hline 2y = 1 \\ y = \frac{1}{2} \end{array}} \right\} \text{Eliminate X}$$

$$\begin{array}{r} \downarrow \\ y = -x \\ -\frac{1}{2} = x \end{array} \quad \left. \vphantom{\begin{array}{r} y = -x \\ -\frac{1}{2} = x \end{array}} \right\} \text{Substitute}$$

Solution $\left(-\frac{1}{2}, \frac{1}{2}\right)$

Directions: Solve the following system of equations using substitution.

$$\begin{array}{l} 3x - y = 2 \\ 6x - 2y = -8 \end{array}$$

<p>Step 1:</p> $\begin{array}{l} 3x - y = 2 \\ 3x - 3x - y = 2 - 3x \\ -y = 2 - 3x \quad \text{OR} \\ -y = -3x + 2 \\ -1[-y = -3x + 2] \\ y = 3x - 2 \end{array}$	<p>Solve 1 equation for 1 variable. (y = ...) OR (x = ...)</p> <p>Subtract 3x from both sides</p> <p>Rewrite the right hand side with x term first. Multiply by -1 to make y positive</p>
<p>Step 2:</p> $\begin{array}{l} 6x - 2y = -8 \\ 6x - 2(3x - 2) = -8 \\ 6x - 6x + 4 = -8 \\ 4 = -8 \end{array}$	<p>Substitute y = 3x - 2 into the other equation and solve.</p> <p>Substitute 3x - 2 for y. Distribute the -2 throughout the parenthesis!</p>

We have a problem! $6x - 6x = 0$. They cancel out. We are left with $4 = -8$. This is NOT a true statement.

Therefore, this is not a solution. This means that there is NO SOLUTION to this system of equations!

Can you imagine what type of graph this system represents? Yes, the lines are parallel lines. They will never intersect; therefore there are no solutions!

This is what happens when you are using the substitution method and there are no solutions! Your end result will not make sense!

Name: _____ Date: _____

Solving Systems of Equations by Substitution

Solve each system of equations using the substitution method.

1. $\begin{array}{l} y = 2x - 1 \\ -4x - 2y = 10 \end{array}$

2. $\begin{array}{l} -x + y = 10 \\ x - 3y = 11 \end{array}$

3. $\begin{array}{l} x - 2y = -20 \\ 3x - y = 0 \end{array}$

4. $\begin{array}{l} 6x + 3y = 1 \\ 5x + 3y = -29 \end{array}$

5. $\begin{array}{l} x + 3 = y \\ y = 8x - 1 \end{array}$

6. $\begin{array}{l} 6x - 2y = 0 \\ y = x + 1 \end{array}$

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