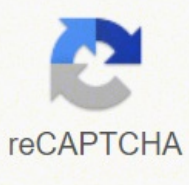


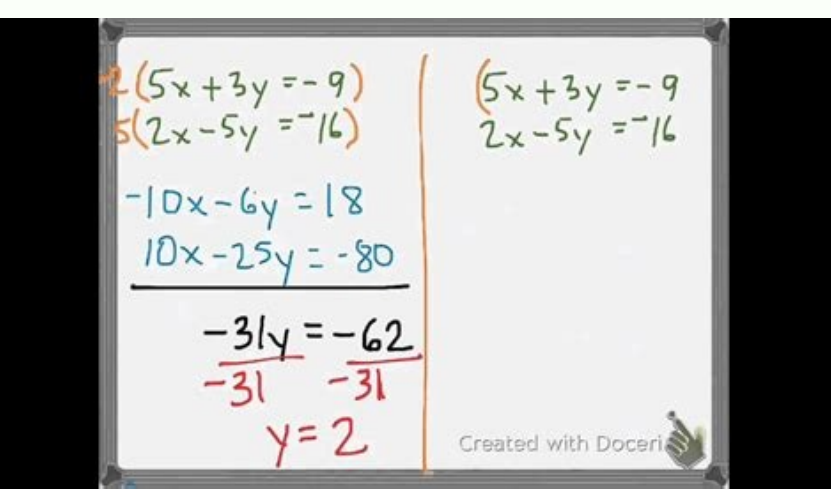


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**Next**

# Substitution method system of equations worksheet



Directions: Solve the following system of equations using substitution.

<p><math>2x - y = 4</math>  <math>2x - 2x - y = 4 - 2x</math>  <math>-y = 4 - 2x</math> OR  <math>-y = -2x - 4</math>  <math>-1[-y = -2x - 4]</math>  <math>y = 2x + 4</math></p>	<p>Solve 1 equation for 1 variable.  <math>(y = \dots)</math> OR <math>(x = \dots)</math></p> <p>Subtract <math>2x</math> from both sides</p> <p>Rewrite the right hand side with the <math>x</math> term first.                  Multiply by <math>-1</math> to make <math>y</math> positive</p>
<p><math>6x - 3y = -12</math>  <math>6x - 3(2x + 4) = -12</math>  <math>6x - 6x - 12 = -12</math>  <math>-12 = -12</math></p>	<p>Substitute <math>2x + 4</math> for <math>y</math> into the other equation and solve.</p> <p>Substitute <math>2x + 4</math> for <math>y</math>.                  Distribute the <math>-3</math> throughout the parenthesis.</p>

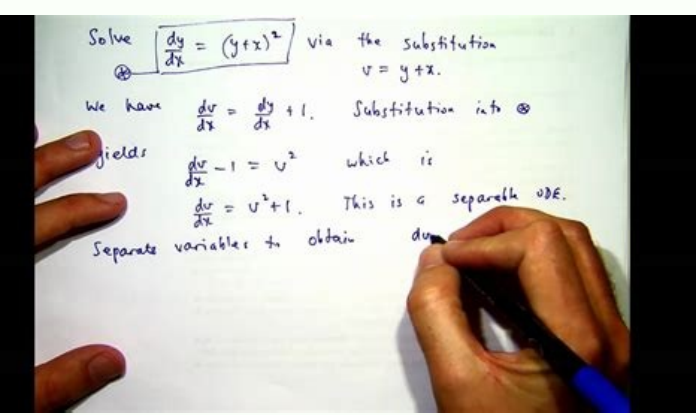
This also looks strange because again, the  $6x - 6x = 0$ . They cancel out! We are left with  $-12 = -12$ . This is a TRUE statement.

$-12$  is equal to  $-12$ .

When your variable cancels out and you are left with two constants that are equal to each other, you have an **infinite** number of solutions.

Can you imagine what type of graph this system represents?  
 Yes, the lines are the same line graphed on top of each other. Every point on the line is a solution to the system of equations!

This is what happens when you are using the substitution method and there are an infinite number of solutions.



L3.1 The symbolic solution of  $y' = -2xy$ ,  $y(0) = 2$  is  $y = 2e^{-x^2}$ . Derive it and display a f.w. Answer check.

**Solution**

$xy' + 2xy = 0$       std form  $y' + py = r$

$\frac{(Wy)'}{W} = 0$        $W = \text{integrating factor } e^{\int p dx}$   
 $W = e^{x^2}$

$(Wy)' = 0$

$Wy = c$        $c = \text{constant}$

$y = c e^{-x^2}$        $1/W = e^{-x^2}$

$2 = c e^0$       use  $y(0) = 2$

$y = 2e^{-x^2}$       candidate solution

**Answer check.**

LHS =  $y'$   
 $= (2e^{-x^2})'$   
 $= 2(-2x)e^{-x^2}$       use  $(e^u)' = u'e^u$   
 $= (-2x)2e^{-x^2}$   
 $= (-2x)y$       DE verified  
 $= RHS$

LHS =  $y(0)$   
 $= 2e^{-0^2}$   
 $= 2e^0$   
 $= 2$       IC verified  
 $= RHS$

$y = 5x + 3$  (1)  
 $4x + 3y = 47$  (2)

Sub (1) in (2)

$4x + 3(5x + 3) = 47$

$4x + 15x + 9 = 47$

$19x = 38$

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Pages 3Systems of equations review gally at the end of an algebraic drive on equation systems, this is a great powerpoint to use for a review game. the home screen lists numbers 1-12 and teams can choose which number to start, click on the number and a problem arises, students work the problem, click again and the answer appears. in this 16 system of task card resources of linear equations is unique. can be used in a collection of clues, resolution of puzzles, highly active and engaging activities and/or as an alternative to reviewing the worksheet for linear systems. If you want to receive 50% discount on your next purchase of teachwithfergy, (depending on folding free equations this is a great resource for the interactive notebook of your students to solve linear equation systems. are provided two folding sets: one with examples and solutions and the other with only examples. 5 total examples in this activity 1 graph 2 substitution 2 subjects of elimination: Equation systems practice problems this worksheet contains 8 equation systems that students solve using the method of their choice (replacement, elimination or graph), equations are in both slope interception and in standard form. 4 graphs are provided if students choose to use the graphic method. (you may want to create extra cutpys: page 4Systems of equations guided reference sheety for download is a suggestion/guide tricks for students who may need a bit of reference when asked for chart, replace or when working with equation systems. Points out that G Rafting should be done with Y = MX + B, elimination should be AX + By = C and substitution should have to systems of equations: digital two-equation grinding systems with two unknown digital equations is a self-control digital labyrinth in Google Sheets226;TM which is impressive for instant feedback for students, and saves the rating for you. Students will solve 13 from problems 19 to complete the maze. This can be used for graphing, Task Cardsby equation subsystem A series of work cards with and without QR codes to review resolution systems by linear/deletion replacement and combination. An answer sheet for students is also included. This is a great way to review the systems. Types:Scavenger Huntby equation systems This is a treasure hunt on linear equation systems. I use it with my algebra lessons 1. There are fourteen questions, 4 graphing, 4 replacement, 4 elimination and 2 word problems. There is a solution page with the answer to the puzzle, but no elaborate solution. These can be provided if necessary. Thanks to Page 5Systems of equations Mash Upby Students explores equation using graphing calculator, algebra 2 vertex form, calculate age in c#, what is 3x - 6y = 12 ... FreeGED Practice Test NY State, fifth grade basic algebra worksheet, free Multiply & divide integers worksheets, linear system of equations ode45, Square root calculator, greatest common factor of 180 300, how to solve a complex fraction, answers for decimals 6th grade, Ratio Maker download, subtracting integers worksheet, how to solve decimal ... Solving Equations Using Elimination and Substitution : In this section, we will learn, how to solve linear equations by substitution method. We use the following steps to solve a linear equations in substitution method and elimination method. 08/06/2018 - Substitution - Another way to solve a system of equations is by substitution. With this method, you are essentially simplifying one equation and incorporating it into the other, which allows you to eliminate one of the unknown variables. Consider the following system of linear equations:  $3x + y = 6$   $x = 18 - 3y$ . In the second equation,  $x$  is ... A system of nonlinear equations is a system of two or more equations in two or more variables containing at least one equation that is not linear. Recall that a linear equation can take the form  $[a]x + [b]y + [c] = 0$ . Any equation that cannot be written in this form is nonlinear. The substitution method we used for linear systems is the same method we will use for nonlinear ... In this page substitution method questions 10 we are going to see solution of first question in the worksheet of substitution method. What is substitution method? Solving system of equation by substitution method, involves solving any one of the given equation for either 'x' or 'y' and plugging that in the other equation and solve that ...

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