

## Solving Equations With No Solution

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### Solving Equations With No Solution

In the linear equation given below, say whether the equation has exactly one solution or infinitely many solution or no solution.  $4x - 3 = 2x + 13$ . Solution :  $4x - 3 = 2x + 13$ . Add 3 to both sides.  $4x = 2x + 16$ . Subtract  $2x$  from each side.  $2x = 16$ . Divide each side by 2.  $x = 8$ . Justify and Evaluate :

### Equations with Many Solutions or No Solution

I solve this by first subtracting  $x$  from both sides of the equation and so on as Sal did in the videos. However, if I first subtract 1 from both sides of the equation, I get  $-x=x$ . I divided  $x$  into both sides, then I got  $-1=1$ . That means no solution because  $-1=1$  is no true,  $-1$  can never equal 1.

### Creating an equation with no solutions (video) | Khan Academy

Many students assume that all equations have solutions. This article will use three examples to show that assumption is incorrect. Given the equation  $5x - 2 + 3x = 3(x+4)-1$  to solve, we will collect our like terms on the left hand side of the equal sign and distribute the 3 on the right hand side of the equal sign.  $5x \dots$

### How to Know when an Equation has NO Solution, or ...

To create a no solution equation, we can need to create a mathematical statement that is always false. To do this, we need the variables on both sides of the equation to cancel each other out and have the remaining values to not be equal. Take this simple equation as an example.

### 5.4 Solving Equations with Infinite or No Solutions

Solve the following equations to determine if there is one solution, infinitely many solutions, or no solution. Then, follow the instructions to make a graph. 1.  $x + 7 + 2x = x - 9$ . After solving,...

### Solving Equations with Infinite Solutions or No Solutions ...

This algebra video tutorial explains how to determine if a system of equations contain one solution, no solution, or infinitely many solutions. It also expla...

### One Solution, No Solution, or Infinitely Many Solutions ...

Solving the equation  $4|x+10|+4 = 6|x+10|+10$  to find that it has no possible solution.

### Worked example: absolute value equations with no solution ...

Or we might have to go further and see if it's one or infinite solutions, although it looks like one solution isn't an option here, given how this question is phrased. So the way that you would proceed to solve three equations with three unknowns is you would try to eliminate variables one by one.

### Solving linear systems with 3 variables: no solution ...

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### Equation Calculator - Symbolab Math Solver

The next case is no solutions, when we have no answer. We can identify which case it is by looking at our results. If we end up with the same term on both sides of the equal sign, such as  $4 = 4$  or  $4x = 4x$ , then we have infinite solutions. If we end up with different numbers on either side of the equal sign, as in  $4 = 5$ , then we have no solutions.

### Solving Equations with Infinite Solutions or No Solutions ...

So there is no solution to this quadratic equation. There is no solution. If we wanted to, we could have just looked at the discriminant. The discriminant is this part--  $b^2$  squared minus  $4ac$ . We see the discriminant is negative, there's no solution, which means that these two guys-- these two equations-- never intersect.

### Quadratic system with no solutions (video) | Khan Academy

To solve your equation using the Equation Solver, type in your equation like  $x+4=5$ . The solver will then show you the steps to help you learn how to solve it on your own. Solving Equations Video Lesson. Khan Academy Video: Solving Simple Equations; Need more problem types? Try ...

### Equation Solver - MathPapa

In this video, I solve a radical equation containing a square root by squaring both sides of the equation. I explain why it is necessary to check for extraneous solutions. In this case, the ...

### Solving Radical Equation with No Solution

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### Step-by-Step Calculator - Symbolab - Symbolab Math Solver

For a system of two linear equations and two variables, there can be no solution, exactly one solution, or infinitely many solutions (just like for one linear equation in one variable). If the two equations are in standard form (both variables on one side and a constant on the other side), then the following are true:

### Number of solutions to equations | Algebra (video) | Khan ...

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### Equations solver - GetEasySolution.com

The solution set of a system of equations can be thought of as the set of all the intersection points of the graphs of the equations in the system. If the system has no solution, then there are no...

### Solving a System of Equations with No Solution - Video ...

The solution  $x = 0$  means that the value 0 satisfies the equation, so there is a solution. "No solution" means that there is no value, not even 0, which would satisfy the equation. Also, be careful not to make the mistake of thinking that the equation  $4 = 5$  means that 4 and 5 are values for  $x$  that are solutions.