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### **Linear Equations Infinite Solutions**

Case 3: Infinite Solutions. This is the rarest case and only occurs when you

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have the same line Consider, for instance, the two lines below ( $y = 2x + 1$  and  $2y = 4x + 2$ ). These two equations are really the same line. Example of a system that has infinite solutions: Line 1:  $y = 2x + 1$ ; Line 2:  $2y = 4x + 2$

**Systems of Linear Equations, Solutions examples, pictures ...**

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Infinite Solutions (Many solutions) The term “infinite” represents limitless or unboundedness. It is denoted by the letter “ $\infty$ ”. Equations with Infinite solutions. To solve systems of an equation in two or three variables, first, we need to determine whether the equation is dependent, independent, consistent, or inconsistent. If a pair of

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the linear equations have unique or infinite solutions, then the system of equation is said to be a consistent pair of linear equations. Thus ...

### **Infinite Solutions (System of Equations with Infinite ...**

Linear Equations With one Solution.

Example 1: Consider the equation  $7x -$

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$35 = 0$ . On solving we have  $7x = 35$  or  $x = 5$ . The above linear equation is only true if  $x = 5$  and hence the given linear equation has only one solution i.e.  $x = 5$ .  
Example 2: Consider the equation  $9(x - 1) - 35 = 8x + 37$ .

**Linear equations with one, zero, or infinite solutions ...**



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If a system of equations has infinitely many solutions, that means all of the equations in that system are the same equation. Such as if you had a system consisting of:  $x + 2y = 4$  and  $2x + 4y = 8$  They are both the same, they are just written differently.

**Creating an equation with infinitely**

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### **many solutions (video ...**

In terms of our treasure hunt, it means that we can't find the treasure because the location of the treasure can be anywhere. There is no  $x$  that marks the spot. Our  $x$  here marks the whole world, which doesn't help us. The equation  $2x + 3 = x + x + 3$  is an example of an equation that has an infinite number of

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solutions.

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

The solution to a system of linear equations in two variables is any ordered pair that satisfies each equation independently. Systems of equations are classified as independent with one

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solution, dependent with an infinite number of solutions, or inconsistent with no solution.

### **Systems of Linear Equations: Two Variables | College Algebra**

In this video lesson, you will learn to recognize when a linear system has no solution or an infinite number of

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solutions. You will also learn how to go about solving each of these types of systems.

### **How to Solve a Linear System in Three Variables With No or ...**

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

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sign and distribute the 3 on the right hand side of the equal sign.  $5x - 2 + 3x = 3(x+4) - 1$  is equivalent to  $8x - 2 = 3x + 12 - 1$ , that is,  $8x - 2 = 3x + 11$ .

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

A linear equation is not always in the form  $y = 3.5 - 0.5x$ , It can also be like  $y$

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=  $0.5(7 - x)$  Or like  $y + 0.5x = 3.5$  Or like  $y + 0.5x - 3.5 = 0$  and more. (Note: those are all the same linear equation!)  
A System of Linear Equations is when we have two or more linear equations working together.

**Systems of Linear Equations -  
mathsisfun.com**

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If the variables disappear, and you get a statement that is always true, such as  $0 = 0$  or  $3 = 3$ , then there are "infinite solutions", meaning, when graphed, the two equations would form the same line

If the variables disappear, and you get a statement that is never true, such as  $0 = 5$  or  $4 = 7$



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## **Examples - Algebra House**

Infinite solutions. A system of linear equations has infinite solutions when the graphs are the exact same line.

## **Number of solutions to system of equations review (article ...**

This algebra video tutorial explains how to determine if a system of equations

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contain one solution, no solution, or infinitely many solutions. It also explains how to determine if the solution is ...

### **One Solution, No Solution, or Infinitely Many Solutions - Consistent & Inconsistent Systems**

Equations with many solutions or no solution - Examples. Example 1 : In the

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linear equation given below, say whether the equation has exactly one solution or infinitely many solution or no solution.  $4x - 3 = 2x + 13$ . Solution :  
Solve the given equation. Step 1 : Add 3 to both sides.

### **EQUATIONS WITH MANY SOLUTIONS OR NO SOLUTION**

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A system of linear equations can have no solution, a unique solution or infinitely many solutions. A system has no solution if the equations are inconsistent, they are contradictory. For example  $2x+3y=10$ ,  $2x+3y=12$  has no solution.

**The three types of solution sets: -**

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## Infinite Algebra 1 - One, None, or

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## **Infinite Many Solutions**

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## **Linear System of Equations with Infinitely Many Solutions**

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A  $n \times n$  homogeneous system of linear equations has a unique solution (the trivial solution) if and only if its determinant is non-zero. If this determinant is zero, then the system has an infinite number of solutions.

### **Systems of Linear Equations**

In mathematics, a system of linear

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equations (or linear system) is a collection of one or more linear equations involving the same set of variables. For example,  $x + y = z$ ,  $x - y = z$ ,  $x + z = y$  is a system of three equations in the three variables  $x$ ,  $y$ ,  $z$ . A solution to a linear system is an assignment of values to the variables such that all the equations are simultaneously satisfied.



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