

Free pdf Linear equations infinite solutions [PDF]

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creating an equation with infinitely many solutions Apr 16 2024

1 the variable has one solution 2 the equation is a contradiction always false so it has no solutions 3 the equation is an identity always true so the variable has a solution set of all real numbers in other words any number you can imagine will make the equation be true in this scenario there are infinite solutions

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

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wolfram alpha is capable of solving a wide variety of systems of equations it can solve systems of linear equations or systems involving nonlinear equations and it can search specifically for integer solutions or solutions over another domain additionally it can solve systems involving inequalities and more general constraints

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the easiest way to deal with it is to eliminate the fractions you can multiply the 1st equation by 6 $6(1x + 3y + 58)$ you get $x + 18y + 348$ for the 2nd equation multiply it by 4 to eliminate the fraction one the fractions are gone use elimination or substitution to solve the system

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example 4 an equation with trig functions with infinitely many solutions consider the following equation with a trigonometric function $2\sin x + 1 = \sin x + \frac{1}{2}x + 12k$ $1 = \frac{1}{2}x + 12k$ $5\pi/6$ for any integer k since k can be any integer there are infinitely many solutions for the equation you can see the graph showing some

1 4 existence and uniqueness of solutions mathematics Nov 11 2023

2022 9 17 key idea 1 4 1 1 4 1 consistent solution types a consistent linear system of equations will have exactly one solution if and only if there is a leading 1 for each variable in the system if a consistent linear system of equations has a free variable it has infinite solutions if a consistent linear system has more variables than leading

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2024 3 18 some equations may have infinitely many solutions and other equations may have no solution at all example 1 infinite solutions $2x + 3 = 2x + 3$ given equation $2x + 3 = 2x + 3$ subtract 3 from each side $2x = 2x$ simplify each side $2x = 2x$ divide each side by 2 $x = x$ simplify each side this answer will

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2013 7 15 number of solutions to equations a linear equation could have exactly 1 0 or infinite solutions if we can solve the equation and get something like $x = b$ where b is a specific number then we have one solution if we end up with a statement that s always false like $3 = 5$ then there s no solution

systems of linear equations with infinite solutions examples Jul 07 2023

there is always a possibility that a system of equations has infinite solutions by eso t preibisch cc by 4 0 while this sounds like a really big idea there s a pretty simple way to tell if your system of equations has infinite solutions

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