

What Does Solution Set Mean In Algebra

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What Does Solution Set Mean

In mathematics, a solution set is the set of values that satisfy a given set of equations or inequalities.. For example, for a set $\{ \}$ of polynomials over a ring, the solution set is the subset of on which the polynomials all vanish (evaluate to 0), formally $\{ \in: \forall \in, = \}$. The feasible region of a constrained optimization problem is the solution set of the constraints

Solution set - Wikipedia

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What's a Solution Set? | Virtual Nerd

Also, you might have noticed that $\{x = 3\}$ is not the only solution to $\{(x^2 - 9 = 0)\}$. In this case $\{x = -3\}$ is also a solution. We call the complete set of all solutions the solution set for the equation or inequality.

There is also some formal notation for solution sets although we won't be using it all that often in this course.

Algebra - Solutions and Solution Sets

Solution Sets for Equations The set containing all the solutions of an equation is called the solution set for that equation. If an equation has no solutions, we write \emptyset for the solution set. \emptyset means the null set (or empty set). Solution set The solution set for the equations $x - y = -1$ and $3x + y = 9$ is the single point $(2, 3)$.

* Solution set (Mathematics) - Definition - Online ...

Examples. 1. The solution set of the single equation is the set $\{0\}$.. 2. For any non-zero polynomial over the complex numbers in one variable, the solution set is made up of finitely many points.. 3. However, for a complex polynomial in more than one variable the solution set has no isolated points.

solution set : definition of solution set and synonyms of ...

It means a listing of every solution to an equation. Example 1: $3x + 1 = 10$. Solution set: x is an element of the set $\{3\}$. That means there is just one solution. If you replace "x" in the original ...

What does solution set mean in math terms? - Answers

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What is a "Solution Set" for an Equation (Algebra) - YouTube

A solution set is the set of values which satisfy a given inequality. It means, each and every value in the solution set will satisfy the inequality and no other value will satisfy the inequality. Example: Solve $2x + 3 \leq 7$, where x is a natural number. Solution: $2x + 3 \leq 7$. Subtracting 3 from both the sides,

Solution Set of an Inequality | Free Homework Help

Solution definition, the act of solving a problem, question, etc.: The situation is approaching solution. See more.

Solution | Definition of Solution at Dictionary.com

what does the solution set being empty mean ? so the equation was $6(x+3)+8=9x-3(x-6)$ and for the answer i got $26 = -18$. and the choice for the answer was . 1) the solution set is ____ 2) the solution is all real numbers. 3) the solution is the empty set.

what does the solution set being empty mean ? | Yahoo Answers

The solution set of a given set of equations or inequalities is the set of all its solutions, a solution being a tuple of values, one for each unknown, that satisfies all equations or inequalities. If the solution set is empty, then there are no values of the unknowns that satisfy simultaneously all equations and inequalities.

Equation solving - Wikipedia

The solution set for an open sentence is the set of values that when substituted for the variable make a true statement. The members of the solution set are called solutions. Examples: $x = 2$.

What does all values of x are solutions mean? - Answers

Purplemath. You never know when set notation is going to pop up. Usually, you'll see it when you learn about solving inequalities, because for some reason saying " $x < 3$ " isn't good enough, so instead they'll want you to phrase the answer as "the solution set is $\{ x \mid x \text{ is a real number and } x < 3 \}$ ". How this adds anything to the student's understanding, I don't know.

Set Notation | Purplemath

A business solution is a combination of ideas used to help a company achieve its objectives. A business solution comes in terms of marketing, payroll, auditing, accounting market research and analysis, among other essential business activities. Businessmen set up companies to solve specific business problems.

What Is a Business Solution? - Reference.com

It's a new type of problem for me and I'm struggling a bit. I know what a basis is but am quite confused about the $\text{Sol}(U)$ part. Does that mean I should just try to solve the system and then think of such a basis that it spans over the possible solutions?

linear algebra - Determining a basis for solution set ...

We refer to a variable used to describe a family of solutions as a parameter and we say that the set above is parametrized with and . (The terms "parameter" and "free variable" do not mean the same thing. Above, and are free because in the echelon form system they do not lead any row. They are parameters because they are used in the solution set description.

Linear Algebra/Describing the Solution Set - Wikibooks ...

Dictionary entry overview: What does solution mean? • SOLUTION (noun) The noun SOLUTION has 5 senses: 1. a homogeneous mixture of two or more substances; frequently (but not necessarily) a liquid solution 2. a statement that solves a problem or explains how to solve the problem 3. a method for solving a problem 4. the set of values that give a true statement when substituted into an equation

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