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An extraneous solution is a root of a transformed equation that is not a root of the original equation because it was excluded from the domain of the original equation.

Extraneous Solutions - Varsity

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Tutors

Extraneous solutions are values that we get when solving equations that aren't really solutions to the equation. In this video, we explain how and why we get extraneous solutions, by understanding the logic behind the process of solving equations. This is the currently selected item.

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Extraneous solutions (video) | Equations | Khan Academy

In mathematics, an extraneous solution is a solution, such as that to an equation, that emerges from the process of solving the problem but is not a valid solution to the problem. A missing solution is a solution that is a valid

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solution to the problem, but disappeared during the process of solving the problem. Both are frequently the consequence of performing operations that are not invertible for some or all values of the variables, which prevents the chain of logical implications in the proof

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Extraneous and missing solutions - Wikipedia

Extraneous Solution. Spurious Solution. A solution of a simplified version of an equation that does not satisfy the original equation. Watch out for extraneous solutions when solving equations with a variable in the denominator of a rational expression,

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with a variable in the argument of a logarithm, or a variable as the radicand in an n th root when n is an even number.

Mathwords: Extraneous Solution

In general, extraneous solutions arise when we perform non-invertible operations on both sides of an equation.

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(That is, they sometimes arise, but not always.) Non-invertible operations include: raising to an even power (odd powers are invertible), multiplying by zero, and combining sums and differences of logarithms.

Extraneous Solutions - Precalculus | Socratic

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An extraneous solution is a valid solution to a mathematical problem obtained following the rules of mathematics but it isn't acceptable in terms of... See full answer below. Become a Study.com...

What is an extraneous solution? | Study.com

Extraneous solutions of equations Our

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Extraneous solutions of radical equations (article) | Khan ...

What is an extraneous solutions? It's a "phony" solution that you get

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sometimes, Even though you haven't made a mistake at all, it does not check when substituted into the original equation. Tutor Paul above gave an example of a radical equation which has an extraneous solution.

SOLUTION: What is an extraneous solutions?

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To solve a radical equation, you have to eliminate the root by isolating it, squaring or cubing the equation, and then simplifying to find your answer. However, this procedure can create answers that appear to be correct, but are not, because of the squaring process. These are called extraneous solutions.

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How to Solve Radical Equations with Extraneous Solutions ...

If ever you actually have assistance with math and in particular with extraneous solutions calculator or linear systems come visit us at Algebra-help.org. We keep a huge amount of great reference information on subjects varying from

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logarithmic to graphs

Extraneous solutions calculator - Algebra-help.org

Sometimes a method used to solve an equation gives extraneous solutions - values which arise from the solution method but that are not solutions of the original equation. This can happen when

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a step in the solution process is not strictly reversible, for example, if both sides of an equation are squared at some point. Example 1: Solve

Common Types of Mistakes: Extraneous Solutions

Suggestions: remember that every polynomial equation has at least one

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root; extraneous solutions are solutions which are mathematically correct but do not make sense to the physical problem.

Extraneous Solution | Wyzant Ask An Expert

To find whether your solutions are extraneous or not, you need to plug each of them back in to your given

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equation and see if they work. It's a very annoying process sometimes, but if employed properly can save you much grief on tests or quizzes. There are two ways you can do this: by hand, and using your graphing calculator.

How do I check for extraneous solutions? | Socratic

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Extraneous solutions are created by using certain methods to solve the problem. They are not, never were, or never will be solutions. They are created by the process that is used to solve. For example, if I have the equation $x - 1 = 0$.

Extraneous Solutions | Wyzant Ask An Expert

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Two of the definitions of extraneous I found in a dictionary are "not belonging or proper" and "existing or originating outside or beyond". Extraneous solutions are not solutions at all. They arise from outside the problem, from the method of solution. They are extraneous because they are not solutions of the original problem.

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Extraneous solutions - Math Central

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If no one realizes that the squaring produced the extraneous solution, I will give them an analogous equation that does not involve trig functions. Ask a student what the solution to the

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equation $x = 3$ is and then square both sides and ask what the solutions to the new equation are.

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Extraneous solutions to radical equations | Algebra I ...

Variable Refrigerant Flow Systems.
Variable refrigerant flow (VRF), also known as variable refrigerant volume (VRV), is an HVAC technology that was

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invented in Japan in the 1980s. VRF systems are characterized by their superior energy efficiency and their flexible output according to load.

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