Use The Discriminant To Determine Number Of Solutions

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Use The Discriminant To Determine
Question 48581: use the discriminant to determine the number of solutions of the quadratic equation, and whether the solutions are real or complex. Note: It is not necessary to find the roots; just determine the number and types of solutions. $2x^2 + x - 1 = 0$. $4/3x^2 - 2x + 3/4 = 0$. $2x^2 + 5x + 5 = 0$. $3z^2 + z - 1 = 0$. $m^2 + m + 1 = 0$.

SOLUTION: use the discriminant to determine the number of ...
Answers. Best Answer: As for using the discriminant to determine the roots of a quadratic equation the rule is: $b^2 - 4ac > 0$ .... two real roots $b^2 - 4ac = 0$ .... one real root $b^2 - 4ac < 0$ .... two complex roots (which are conjugates of each other) In your example the discriminant is $2^2 - 4(4/3)(3/4) = 0$ so one real root.

How do I use the discriminant to determine the number of ...
Use the discriminant to determine the number of real-number solutions for the equation: $8x2 + 8x + 2 = 0$. A. one solution. B. two solutions. C. no solutions. D. infinitely many solutions. Follow.

Use the discriminant to determine the number of real ...
The discriminant in a quadratic equation is found by the following formula and the discriminant provides critical information regarding the nature of the roots/solutions of any quadratic equation. discriminant= $b^2 − 4ac$. Example of the discriminant. Quadratic equation $= y = 3x^2 + 9x + 5$; The discriminant $= 9^2 − 4 • 3 • 5$

The Discriminant in Quadratic Equations--visual tutorial ...
Use the discriminant to determine the nature of the roots of the following equation. $y2 - 5y - 3 = 0$ Double root real and rational root real and irrational root non-real root. Don't like ads? The discriminant is positive, but not a square. The two distinct roots are each real and irrational.

Use the discriminant to determine the nature of the roots ...
Use the discriminant to determine the nature of the roots: determine if they have either: -no real roots -two distinct roots -one real root or -three distinct real roots 1) $4x^2 + 15x + 10 = 0$ 2) $x^2 + 5x + 6 = 0$ 3) $2x^2 = 0$ 4) $-x^2 + 4x – 4 = 0$ 5) $5x^2 - 5x – 60 = 0$ 6) $x^2 + 2x + 5 = 0$ 7)... show more Use the discriminant to determine the ...

Use the discriminant to determine the nature of the roots ...
Solve $3x2 + 4x + 2 = 0$. (The relationship between the discriminant (being the value inside the square root), the type of solutions (two distinct solutions, one repeated solution, or no graphable solutions), and the number of x -intercepts on the graph (two, one, or none) is summarized in a chart on the next page .)

The Quadratic Formula: Solutions and the Discriminant ...
Whether the discriminant is greater than zero, equal to zero or less than zero can be used to determine if a quadratic equation has no real roots, real and equal roots or real and unequal roots. The discriminant. The discriminant is , which comes from the quadratic formula and we can use this to find the nature of the roots.

Using the discriminant to determine the number of roots ...
Question 769550: use the discriminant to determine the number of points of intersection on the line $y= 3x +5$ and the quadratic function $f(x) = 3x^2 -2x-4$ Solve to find the points of intersection. Found 2 solutions by reviewermath, josgarithmetic:

SOLUTION: use the discriminant to determine the number of ...
The discriminant of the quadratic equation following `ax^2+bx+c=0` is equal to `b^2-4ac`. The notation used for the discriminant is `Delta` (delta), so we have `Delta=b^2-4ac`. The calculator has a feature which allows the calculation of the discriminant online of quadratic equations.

Calculate discriminant online - Solumaths
Note: In a quadratic equation, the discriminant helps tell you how many real solutions a quadratic equation has. In this tutorial, see how to find the discriminant of a quadratic equation and use it to determine the number of solutions!

How Do You Use The Discriminant to Determine the Number of ...
Determine the number of solutions to the quadratic equation, x squared plus 14x plus 49 is equal to 0. There's a bunch of ways we could do it. We could factor it and just figure out the values of x that satisfy it and just count them. That will be the number of solutions. We could just apply the ...

Using the quadratic formula: number of solutions (video ...
This algebra video tutorial explains how to use the discriminant formula on a quadratic equation to determine the number and type of solutions such as real solutions or imaginary solutions.

Discriminant Equation - Quadratic Formula - Real & Imaginary Solutions - Algebra
Using the Discriminant to determine the number of REAL solutions to a quadratic equation. For more free math videos, visit htt://JustMathTutoring.com Category

Using the Discriminant for Quadratic Equations
The discriminant can be positive, zero, or negative, and this determines how many solutions there are to the given quadratic equation. A positive discriminant indicates that the quadratic has two distinct real number solutions. A discriminant of zero indicates that the quadratic has a repeated real number solution.

Discriminant review (article) | Quadratics | Khan Academy
Use the discriminant to determine whether the following equations have solutions that are: two different rational - Answered by a verified Math Tutor or Teacher We use cookies to give you the best possible experience on our website.

Use the discriminant to determine whether the following ...
Use the discriminant to determine how many real number solutions exist for the quadratic equation $-4j^2 + 3j - 28 = 0$. A. 0 C. 2 B. 1 D. 3

Use the discriminant to determine how many real number ...
use the discriminant to determine the number of solutions of the quadratic equation, and whether the solutions are real or complex. here's the equation: $2x^2 + 5x + 5 = 0$ thanks.

8. use the discriminant to determine the number of ...
Use the discriminant to determine the number of solutions of the quadratic equation. $4x^2 + 1 = 0$? Find the discriminant of the polynomial below. $4x^2 - 20x + 25$? $X^2 -4x +4 = 0$ use discriminant to determine the number of real solutions of quadratic equations? More questions.

Use the discriminant to determine the number of solutions ...
$4x^2+15x+10$ has discriminant Delta = 65 So $4x^2+15x+10 = 0$ has two distinct real, irrational roots. $4x^2+15x+10$ is of the form ax^2+bx+c with a=4, b=15 and c=10. The discriminant is given by the formula: Delta = $b^2 - 4ac$ = $15^2 - (4 \times 4 \times 10)$ = 225 - 160 = 65 This is positive, but not a perfect square. So the quadratic equation has two distinct irrational real roots.

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