

Quadratic Equation Iit Jee Notes

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Quadratic Equation Iit Jee Notes

Revision Notes on Quadratic Equations. In order to solve a quadratic equation of the form $ax^2 + bx + c$, we first need to calculate the discriminant with the help of the formula $D = b^2 - 4ac$. The solution of the quadratic equation $ax^2 + bx + c = 0$ is given by $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$. If α and β are the roots of the quadratic equation $ax^2 + bx + c = 0$, then we have the following results for the sum and product of roots:

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Short notes of Quadratic Equation for IIT - JEE main & advance 1. The solution of the quadratic equation , $ax^2 + bx + c = 0$ is given by $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ The expression $b^2 - \dots$ 4. A quadratic equation whose roots are α & β is $(x - \alpha)(x - \beta) = 0$ i.e. $x^2 - (\alpha + \beta)x + \alpha\beta = 0$ i.e. $x^2 - (\text{sum} \dots$

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The condition that the roots of a quadratic equation are real is i.e. The quadratic trinomial will be a perfect square if $D = 0$ i.e. If α is a repeated root of the quadratic equation then α is a root of equation as well. If α, β, γ are non real and the quadratic equation has non-real roots, then the roots need not be conjugate.

Quadratic Equations | Mathematics Notes for IITJEE Main

The word quadratic equation is derived from the Latin word 'quadratus' meaning a square. A quadratic equation is any equation having the form $ax^2 + bx + c = 0$, where x represents an unknown, and a, b , and c are constants with a not equal to 0.

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$a\left[\frac{x + b/2a}{2} \pm \frac{\sqrt{D/4a^2}}{2}\right]$ The above quadratic equation represents a parabola whose vertex is at $P\left[-\frac{b}{2a}, -\frac{D}{4a}\right]$ and axis parallel to y-axis. In a quadratic equation, the value of 'a' determines whether the graph of a quadratic equation will be concave upwards ($a > 0$) or concave downwards ($a < 0$).

Quadratic Equation - Formulas, Tricks for Solving ...

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G. Equation \sqrt{s} Identity. A quadratic equation is satisfied by exactly two values of 'x' which may be real or imaginary. The equation, $ax^2 + bx + c = 0$ is : If a quadratic equation is satisfied by three distinct values of 'x', then it is an identity. $(x + 1)^2 = x^2 + 2x + 1$ is an identity in x.

Quadratic Equations, Chapter Notes, Class 11, Maths(IIT ...

The quadratic equations are of the form $ax^2 + bx + c = 0$, where x represents an unknown, and a, b , and c are constants with a not equal to 0. Discriminant of a Quadratic Equation: The discriminant of a quadratic equation is defined as the number $D = b^2 - 4ac$

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