

## *Quadratic Equation Iit Jee Notes*







**Quadratic Equation IIT JEE Notes**

Revision Notes on Quadratic Equations. In order to solve a quadratic equation of the form  $ax^2 + bx + c = 0$ , 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  $\alpha$  and  $\beta$  are the roots of the quadratic equation  $ax^2 + bx + c = 0$ , then we have the following ...

**Quadratic Equations - Revision Notes for IIT JEE & Other ...**

Interval in Which the Roots Lie. In some problems we want the roots of the equation  $ax^2 + bx + c = 0$  to lie in a given interval. For this we impose conditions on  $a$ ,  $b$ , and  $c$ . Let  $f(x) = ax^2 + bx + c$ .  
(i) If both the roots are positive i.e. they lie in  $(0, \infty)$ , then the sum of the roots as well as the product of the roots must be positive.

**Interval In Which The Roots Lie - Study Material for IIT ...**

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