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# **Physics**

## **Higher and Standard level**

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# Ib Physics Papers

**L Cohen**



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web the standard form of a quadratic equation is  $ax^2 + bx + c = 0$  where  $a$ ,  $b$  and  $c$  are real numbers and  $a \neq 0$  the term  $b^2 - 4ac$  is known as the discriminant of a quadratic equation it tells the nature of the roots if the discriminant is greater than 0 the roots are real and different if the discriminant is equal to 0 the roots are real and equal if the

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web the quadratic formula in terms of the discriminant is  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  example find the discriminant of the quadratic equation  $2x^2 - 3x - 8 = 0$  comparing the equation with  $ax^2 + bx + c = 0$  we get  $a = 2$ ,  $b = -3$  and  $c = -8$  so the discriminant is  $\Delta$  or  $b^2 - 4ac = (-3)^2 - 4(2)(-8) = 9 + 64 = 73$  discriminant of cubic equation

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web find the value of the discriminant of each quadratic equation  $x^2 - 6x + 2 = 0$ ,  $2x^2 - x + 1 = 0$ ,  $7x^2 + 4m^2 - 4m - 5 = 0$ ,  $96x^2 + 5b^2 - b - 2 = 0$ ,  $415r^2 + 5r - 2 = 0$ ,  $1762p^2 + 5p - 4 = 0$ ,  $57$  find the discriminant of each quadratic equation then state the number of real and imaginary solutions

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web mar 1 2022 the quadratic formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$   $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  if the discriminant is positive this means we are taking the square root of a positive number we will have a positive and negative real solution this equation will have two real solutions or  $x$  intercepts