



QUADRATIC EQUATIONS

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MATHS PRACTICE PAPER 02

Total Marks : 20

I. Choose the Most Appropriate Answers

3 x 1 = 3

- Which of the following is not a quadratic equation?
 - $x^2 + 3x - 5 = 0$
 - $x^2 + x^3 + 2 = 0$
 - $3 + x + x^2 = 0$
 - $x^2 - 9 = 0$
- The quadratic equation whose one rational root is $3 + \sqrt{2}$ is
 - $x^2 - 7x + 5 = 0$
 - $x^2 + 7x + 6 = 0$
 - $x^2 - 7x + 6 = 0$
 - $x^2 - 6x + 7 = 0$
- If one root of the quadratic equation $2x^2 + kx - 6 = 0$ is 2, the value of k is
 - 1
 - 1
 - 2
 - 2

II. Solve the following

2 x 1 = 2

- The product of two consecutive positive integers is 306. We need to find the integers, Express in form of Quadratic Equation
- If $b^2 - 4ac < 0$ then determine the nature of roots

III. Solve the following

4 x 2 = 8

- Find the roots of the $2x^2 + x - 6 = 0$ quadratic equation by factorisation
- John and Jivanti together have 45 marbles. Both of them lost 5 marbles each and the product of the number of marbles they now have is 124. We would like to find out how many marbles they had to start with
- Find two numbers whose sum is 27 and product is 182
- Find the roots of $4x^2 - 4\sqrt{3}x + 3 = 0$ quadratic equation by applying the quadratic formula.

IV. Solve the following

1 x 3 = 3

- A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train.

V. Solve the following

1 x 4 = 4

- The altitude of a right triangle is 7cm less than its base, if the hypotenuse is 13cm then find the other two sides

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