Class 10 Maths - Quadratic Equations (Worksheet 4)

Section A - Easy (1 mark each)

1. Check whether x^2 - 3x + 2 = 0 is a quadratic equation.
2. Find the roots of x^2 - 9 = 0.
3. Write the discriminant of 2x^2 - 4x + 3 = 0.

Section B - Practice (2 marks each)

4. Solve by factorisation: 6x^2 - x - 2 = 0.
5. Find k if x = 2 is a root of x^2 + kx - 6 = 0.
6. Find the nature of roots of 3x^2 - 2x + 1/3 = 0.

Section C - Board level (3 marks each)

7. The product of two consecutive positive integers is 306. Find the integers.
8. A train travels 360 km at uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less. Find the speed of the train.

Answers

2. +3, -3 4. 2/3, -1/2 5. k = 1 6. Equal real roots 7. 17, 18 8. 40 km/h

Sample material for website visitors. Full material is given to enrolled students. www.labbaikcoaching.in