

Class – 10th

Chapter-3

Subject Maths

Worksheet-07

Polynomials

Check whether the following are quadratic equations:

1. $(x + 1)^2 = 2(x - 3)$
2. $x^2 - 2x = (-2)(3 - x)$
3. $(x - 2)(x + 1) = (x - 1)(x + 3)$
4. $(x - 3)(2x + 1) = x(x + 5)$
5. Find the roots of the quadratic equation $6x^2 - x - 2 = 0$.
6. Find the roots of the quadratic equation $3x^2 - 2\sqrt{6}x + 2 = 0$.
7. Find the roots of the quadratic equation $x^2 - 3x - 10 = 0$
8. Find the roots of the quadratic equation $100x^2 - 20x + 1 = 0$
9. Find two numbers whose sum is 27 and product is 182.
10. Find two consecutive positive integers, sum of whose squares is 365.