

Chapter- 4: Quadratic Equations

Exercise 4.2 (Page 76 of Grade 10 NCERT)

Q1. Find the roots of the following quadratic equations by factorization:

i) $x^2 - 3x - 10 = 0$

ii) $2x^2 + x - 6 = 0$

iii) $\sqrt{(2)}x^2 + 7x + 5\sqrt{2}$

iv) $2x^2 - x + 1/8$

v) $100x^2 - 20x + 1$

Difficulty Level: Medium

Reasoning:

Roots of the polynomial are same as the zeros of the polynomial. Therefore, roots can be found by factorizing the quadratic equation into two linear factors and equating each to zero.

What is the unknown?

Roots of given Quadratic Equations.

What is known?

Quadratic Equations.

i)

Solution:

$$\begin{aligned} x^2 - 5x + 2x - 10 &= 0 \\ x(x - 5) + 2(x - 5) &= 0 \\ (x - 5)(x + 2) &= 0 \\ x - 5 = 0 \quad \text{and} \quad x + 2 = 0 \\ x = 5 \qquad \qquad \qquad x &= -2 \end{aligned}$$

Roots are: -2, 5.

ii)

Solution:

$$\begin{aligned} 2x^2 + x - 6 &= 0 \\ 2x^2 + 4x - 3x - 6 &= 0 \\ 2x(x + 2) - 3(x + 2) &= 0 \\ (2x - 3)(x + 2) &= 0 \\ 2x - 3 = 0 \quad \text{and} \quad x + 2 = 0 \\ 2x = 3 \qquad \qquad \qquad x &= -2 \\ x = 3/2 \quad \text{and} \quad x &= -2 \end{aligned}$$

Roots are: 3/2, -2

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