

## Quadratic Equation - MCQ

- 1) Identify the roots of the quadratic equation  $x^2 - 4x - 12 = 0$ .
- i)  $x = -2 ; x = 6$       ii)  $x = -3 ; x = 8$       iii)  $x = 2 ; x = 6$       iv)  $x = 7 ; x = -5$
- 2) Which equation has the roots  $s = 2$  and  $s = -3$ ?
- i)  $s^2 + 5s - 6 = 0$       ii)  $s^2 + s - 6 = 0$       iii)  $s^2 + 5s + 6 = 0$       iv)  $s^2 + s + 6 = 0$
- 3) Identify the product of the roots of the quadratic equation  $x^2 - 10x + 25 = 0$ .
- i) 25      iv) 20
- 4) If 9 is one of the roots of the quadratic equation  $x^2 - 14x + p = 0$ , find the other root?
- i)  $p = 5$       iv)  $p = 2$
- 5) Identify the sum of the roots of the quadratic equation  $x^2 - 10x + 25 = 0$ .
- i) 40      iv) -40
- 6) Which equation has the roots  $y = 3$  and  $y = -3$ ?
- i)  $y^2 + 6y - 18 = 0$       iv)  $y^2 - 4y + 9 = 0$
- 7) Which equation is the standard form of  $7q(q + 1) + 3(q + 1) = 0$ ?
- i)  $7q^2 + 10q + 3 = 0$       ii)  $7q^2 + 14q + 3 = 0$       iii)  $7q^2 + 21 = 0$       iv)  $7q^2 + 9q + 1 = 0$
- 8) Which quadratic equation has the roots  $n = \frac{1}{2}$  and  $n = \frac{3}{4}$ ?
- i)  $3n^2 + 6n - 18 = 0$       ii)  $5n^2 - 4n + 5 = 0$       iii)  $8n^2 - 10n + 3 = 0$       iv)  $7n^2 + 5n - 9 = 0$

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