

Quadratic Equation - MCQ

Sheet 2

- 1) Which equation is the standard form of $6(2 + z) - 2(2 - 9z^2) = 0$?
- i) $14z^2 + 15z - 3 = 0$ ii) $12z^2 + 5z - 8 = 0$ iii) $18z^2 + 6z + 8 = 0$ iv) $18z^2 - 6z - 4 = 0$
- 2) Which equation has the roots $p = \frac{2}{5}$ and $p = -\frac{3}{2}$?
- i) $2p^2 + 10p - 18 = 0$ ii) $18p^2 + 4p - 5 = 0$ iii) $10p^2 + 11p - 6 = 0$ iv) $8p^2 + 5p - 9 = 0$
- 3) Identify the roots of the equation $n^2 - 3n - 4 = 0$.
- i) $n = 1 ; n = 2$ iv) $n = -1 ; n = 2$
- 4) Identify the product of the roots of the equation $2x^2 - 5x + 2 = 0$.
- i) 5 iv) -5
- 5) Identify the roots of the equation $y^2 - 12y + 20 = 0$.
- i) $y = -5 ; y = 7$ iv) $y = 5 ; y = 7$
- 6) If $x = 4$ is one of the roots of the equation $x^2 - 10x + k = 0$, identify the other root.
- i) $x = 12$ iv) $x = -10$
- 7) Which quadratic equation has the roots $u = 6$ and $u = -4$?
- i) $u^2 - 2u - 24 = 0$ ii) $u^2 + 9u - 13 = 0$ iii) $u^2 - 2u + 24 = 0$ iv) $2u^2 + u + 3 = 0$
- 8) Identify the sum of the roots of the equation $t^2 - 14t + 48 = 0$.
- i) 24 ii) 14 iii) 48 iv) -14

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