

CBT Maths class 10 June 2024

Q1. If one of the zero of the polynomial $3x^2 + 8x + k$ is the reciprocal of the other, then the value of k is

- (a) 3 (b) -3 (c) $1/3$ (d) $-1/3$

Correct answer. (a)

Q2. If α and β are the zeroes of the polynomial $2x^2 - 13x + 6$ then $\alpha + \beta$ is equal to

- (a) -3 (b) 3 (c) $13/2$ (d) $-13/2$

Correct answer. (C)

Q3. If α and β are the zeroes of the quadratic polynomial $x^2 - x - 4$ then the value of

$1/\alpha + 1/\beta - \alpha.\beta$ is

- (a) $15/4$ (b) $-15/4$ (c) 4 (d) 5

Correct answer. (a)

Q4. If -1 is a zero of the polynomial $P(x) = x^2 - 7x - 8$ then the other zero is

- (a) -8 (b) -7 (c) 1 (d) 8

Correct answer. (d)

Q5. Zeroes of a quadratic polynomial $x^2 - 5x + 6$ are

- (a) -5, 1 (b) 5, 1 (c) 2, 3 (d) -2, -3

Correct answer. (c)

Q6. If α and β are zeroes of the polynomial $x^2 - 1$, then the value of $\alpha + \beta$ is

- (a) 2 (b) 1 (c) -1. (d) 10

Correct answer. (d)

Q7. If α and β are the zeroes of quadratic polynomial $4x^2 + 5x + 7$ then $\alpha\beta^2 + \alpha^2\beta + \alpha.\beta$ is

- (a) $-5/4$ (b) $7/16$ (c) $-7/16$ (d) $7/4$

Correct answer. (c)

Q8. If one of the zero of the polynomial $p(x) = x^2 - kx - 3$ is 3 then the value of k is

- (a) -3. (b) 2. (c) -2. (d) 0

Correct answer. (b)

Q9. If (-3) is one of the zeroes of the quadratic polynomial $(k-1)x^2 + kx - 3$ then the sum of the zeroes of the polynomial is

- (a) 2. (b) 3. (c) 1. (d) -2

Correct answer. (d)

Q10. If α and β are the zeroes of the polynomial $f(x) = px^2 - 2x + 3p$ and $\alpha + \beta = \alpha \cdot \beta$ then

P is

- (a) 2/3. (b) -2/3. (c) 1/3 (d) -1/3

Correct answer. (a)