



Class 10 Mathematics | Polynomials

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The zeroes of x^2-5x+6 are:

- A. 1 and 6 B. 2 and 3
C. -2 and -3 D. -1 and -6

2. Sum of zeroes of $3x^2-7x+2$ is:

- A. $-7/3$ B. $2/3$ C. $-2/3$ D. $7/3$

3. Product of zeroes of $4x^2+3x-5$ is:

- A. $-3/4$ B. $-5/4$ C. $5/4$ D. $3/4$

4. A monic polynomial with zeroes -2 and 5 is:

- A. $x^2-7x+10$ B. $x^2+3x-10$
C. $x^2-3x-10$ D. $x^2+7x+10$

5. If one zero of x^2-8x+k is 3, then k is:

- A. 24 B. 11 C. 15 D. -15

6. If zeroes of $x^2+px+12$ are 3 and 4, p is:

- A. -12 B. -7 C. 7 D. 12

7. The graph of a polynomial intersects the x-axis at three distinct points. Number of zeroes is:

- A. 3 B. 2 C. 1 D. 0

8. If α, β are zeroes of x^2-6x+5 , then $\alpha^2+\beta^2$ is:

- A. 10 B. 31 C. 26 D. 36

9. If α, β are zeroes of $2x^2-5x+2$, then $1/\alpha+1/\beta$ is:

- A. 1 B. $5/2$ C. 5 D. $2/5$

10. For what k are the real zeroes of x^2+kx-9 opposites of each other?

- A. 9 B. 0 C. -9 D. 3

11. Which polynomial has zeroes 0 and -4?

- A. x^2-4 B. x^2-4x C. x^2+4x D. x^2+4

12. The number of distinct real zeroes of $(x-2)^2$ is:

- A. 1 B. 0 C. 2 D. 3

13. If $\alpha+\beta=-3$ and $\alpha\beta=-4$, a suitable polynomial is:

- A. x^2-4x-3 B. x^2+3x-4
C. x^2+3x+4 D. x^2-3x-4

14. If 2 is a zero of $3x^2+ax-10$, then a is:

- A. 1 B. -2 C. -1 D. 2

15. If α, β are zeroes of x^2-4x+1 , then $(\alpha-\beta)^2$ is:

- A. 8 B. 12 C. 20 D. 16

ANSWER KEY — check after completing all 15 questions

1.B 2.D 3.B 4.C 5.C 6.B 7.A 8.C 9.B 10.B 11.C 12.A 13.B 14.C 15.B

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper

Plot No. 15, Second Floor, Jaisingh Chowk, Sector 85, Gurgaon - 122004

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