



Class 11 Mathematics | Introduction To Three-Dimensional Geometry

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

1. The distance between (1,2,3) and (4,6,3) is:

A. $\sqrt{29}$ B. 7 C. 25 D. 5

2. The distance of (2,-3,6) from the origin is:

A. 11 B. 49 C. $\sqrt{41}$ D. 7

3. Which point lies on the xy-plane?

A. (3,0,-2) B. (0,3,-2) C. (3,-2,0) D. (1,1,1)

4. A point on the z-axis has coordinates:

A. (0,z,0) B. (z,0,0) C. (0,0,z) D. (z,z,0)

5. The distance of (3,4,5) from the xy-plane is:

A. 4 B. $\sqrt{41}$ C. 5 D. 3

6. The distance of (-2,3,4) from the yz-plane is:

A. 2 B. $\sqrt{29}$ C. 4 D. 3

7. The distance of (2,-5,7) from the xz-plane is:

A. 7 B. 5 C. 2 D. $\sqrt{74}$

8. The distance between (0,0,0) and (1,1,1) is:

A. $\sqrt{2}$ B. $\sqrt{3}$ C. 1 D. 3

9. For (a,2,3) to lie on the yz-plane, a must be:

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

10. Which point is in the first octant?

A. (2,3,-4) B. (2,-3,4) C. (-2,3,4) D. (2,3,4)

11. The distance between (-1,0,2) and (2,0,6) is:

A. 7 B. 4 C. 3 D. 5

12. If (x,0,0) is 4 units from the origin, x can be:

A. 0 only B. -4 only C. 4 only D. 4 or -4

13. The points (1,2,3) and (1,2,8) are separated by:

A. 5 B. 11 C. $\sqrt{5}$ D. 3

14. The squared distance between (2,1,-1) and (-1,3,1) is:

A. 13 B. 9 C. 7 D. 17

15. Which coordinate is zero for every point on the xz-plane?

A. All three B. y C. x D. z

ANSWER KEY — check after completing all 15 questions

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

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

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