

## Worksheet: Introduction to Three-Dimensional Geometry

Gujarat State Board · Class 11 · Mathematics · 3 questions · 12 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 12

**Q1.** Find the distance between the points  $A(1, 2, 3)$  and  $B(4, 6, 3)$ . [2 marks]

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**Q2.** Find the coordinates of the point that divides the line segment joining  $A(1, 2, 3)$  and  $B(3, 4, 5)$  internally in the ratio 2:3. [4 marks]

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**Q3.** Show that the points  $A(1, 2, 3)$ ,  $B(1, 2, 1)$ ,  $C(2, 3, 2)$  are vertices of a triangle and find which type by computing all three side lengths. [6 marks]

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