

INTRODUCTION TO THREE DIMENSIONAL GEOMETRY**DISTANCE BETWEEN TWO POINT****EXERCISE**

Find the distance between the following pairs of points:

- Q.1** (5, 6, 7) and (2, 6, 3)
Q.2 (-3,7,2) and (2,4,-1)
Q.3 (2,-1,3) and (-2,1,3)
Q.4 Verify that The three points A (1,2,3), B(3,1,2),C(2,3,1) are the vertices of an equilateral triangle.
Q.5 Verify that The three points A (3,0,3), B(5,3,2),C(6,5,5) are the vertices of an isosceles triangle.
Q.6 Verify that the points A (3, 2, 1), B (5, 3, -2) and C (-1, 0, 7) are collinear.

ANSWER KEY

1. 5 unit
2. $\sqrt{43}$
3. $2\sqrt{5}$