MATHS

BOOKS - JEEVITH PUBLICATIONS MATHS (KANNADA ENGLISH)

INTRODUCTION TO THREE DIMESIONAL GEOMETRY

One Marks Questions With Answers

1. Name the octants in which the following points lie

(4,2,-5)

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2. Find the distance between the points $A(2, 3, 4)$ and $B(-1, 2, 3)$

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2 3 Marks Questions With Answers

1. Show that the points $A(1, -2, -8), B(5, 0, -2), C(11, 3, 7)$ are collinear.

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2. Show that the points $A(0, 7, 10), B(-1, 6, 6)$ and $C(-4, 9, 6)$ from a right angled triangle.

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3. Show that the points $A(5, -1, 1), B(7, -4, 7), C(1, -6, 10), D(-1, -3, 4)$ from a rhombus.

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4. Find a point on Z- axis which is equidistant from $A(1, 5, 7)$ and $B(5, 1, -4)$ Units.

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5. Find k so that the distance between the points $A(4, 5, k)$ and $B(7, 1, -3)$ is 13 Units.

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6. Find the coordinates of the point which divides the line joining the points $A(5, 4, 2)$ and $B(-1, -2, 4)$ in the ratio (i) 2 : 3 internally (ii) 2 : 3 externally.

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7. Using section formula prove that the point that the points $A(-4, 6, 10), B(2, 4, 6)C(14, 0, -2)$ are collinear .

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8. Find the ratio in which the line joining the points `A(4,8,10) and B(6,10,-8) is divided by xy- plane.

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9. Find the centroid of the triangle whose vertices are $(3, 6, 5)(6, 2, 7)$ and $(3, 2, 9)$

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10. The centroid of a triangle ABC is (1, 2, 2) If the coordinates of A and B are $(3, -5, 7)$ and $(-1, 7, -6)$ respectively . Find the coordinates of C.

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