

THE SCHRAM ACADEMY, CHENNAI

WORKSHEET- 3 3-DIMENSIONAL GEOMETRY

NAME :
CLASS : XI

DATE:
SUBJECT : MATHEMATICS

- Name the octants in which the following points lie:
 - (1,2,3)
 - (-4,2,5)
 - (-3,-1,6)
 - (4,-2,3)
 - (-2,-4,-7)
 - (4,-2,-5)
 - (4,3,-6)
 - (-3,4,-6)
- Write the co-ordinates of the foot of the perpendicular drawn from the point (2,4,5) on
 - x-axis
 - y-axis
 - z-axis
 - xy – plane
 - yz – plane
 - xz – plane
- Find the distance between the following pairs of points:
 - (1,-3,4) and (-4,1,2)
 - (-3,7,2) and (2,4,-1)
 - (-1,3,4) and (1,-3,4)
 - (2,-3,1) and (-2,5,1)
- Fill in the blanks:
 - The x-axis and the y-axis taken together determine a plane is known as _____
 - The co-ordinates of points in the xy – plane are of the form _____
 - Co-ordinate planes divide the space into _____ octants
 - The mid-point of the line segment joining the points (1,3,4) and (3,5,0)
- Find the co-ordinates of the point which divides the line segment joining The points (-2,3,5) and (1,-4,6) in the ratio 2:3 internally
- Find the ratio in which the yz-plane (ie, x co-ordinate becomes zero) divides the line segment formed by joining the points (-2,4,7) and (3,-5,8)