

SHEET NO-4
PROJECTION OF POINTS AND STRAIGHT LINE

Q.1 Draw the projection of points, the position of which are given below:

1. A point 'P' 25mm above H.P. and 20 mm behind V.P.
2. A point 'Q' 20mm below H.P. and 25mm behind V.P.
3. A point 'R' 25mm below H.P. and 20mm in front of V.P.
4. A point 'S' 20mm above H.P. and 25mm in front of V.P.
5. A point 'T' on H.P. and 25mm in front of V.P.
6. A point 'U' on H.P. and 25mm behind V.P.
7. A point 'V' on V.P. and 20mm above H.P.
8. A point 'W' on V.P. and 20mm below H.P.
9. A point 'X' on H.P. as well as V.P. both.

Q.2 A line AB is 80mm long and the end A is 15mm above H.P. The other end B is 10mm in front of V.P. The line is inclined at 30° with H.P. and 45° with V.P. Draw the projections of the line when it is in 1st quadrant.

Q.3 The distance between end projectors of the straight line KL is 48 mm. The end K is 20 mm below H.P and 25 mm behind V.P. The end L is 12 mm above H.P. and 40 mm in front of V.P. Draw the projections and find the true Length of the line.

Q.4 A line AB measures 80 mm in top view & 70 mm in front view. The Midpoint M of the line is 45 mm in front of VP and 35 mm above HP. The end A is 10 mm in front of VP. Draw the projections of the line and find its true length and inclination with HP and VP.

Q.5 A line YZ, 65 mm long, has its end Y 20 mm below HP and 25 mm behind VP. The end Z is 50 mm below HP and 65 mm behind VP. Draw the projections of line YZ and find its inclinations with HP and VP.