CW 4 Projections of Points and Lines

1. A straight line AB is 60 mm long. It is inclined to H.P. & V.P. by an angle of 30° and 45° respectively. Point A is 30 mm above H.P. and 20 mm in front of V.P. draw the projections of line AB.

2. The distance between the end projectors of a straight line AB is 60 mm, Point A is 5 mm above H.P. and 30 mm in front of V.P. Point B is 40 mm above H.P. and 50 mm behind V.P. Draw the projections and find the inclination of straight line AB with H.P. and V.P. and the true length of line. Also find traces.

3. A line PQR, 100 mm long is inclined to H.P. by 30° & V.P. by 45°. PQ:QR = 2:3. Point Q is in V.P. and 25 mm above H.P. Draw the projections of the line PQR when point R is in the 1st quadrant. Find the position of point P. Draw also the traces of line PQR.

4. A fan is hanging in the centre of the room of 4m * 3m * 3m height. The centre of the fan is 0.75 m below the ceiling. The switch of this fan is on 3m * 3m size wall at the centre height & 0.5m from the adjacent wall. Find the distance between the fan centre and the switch.