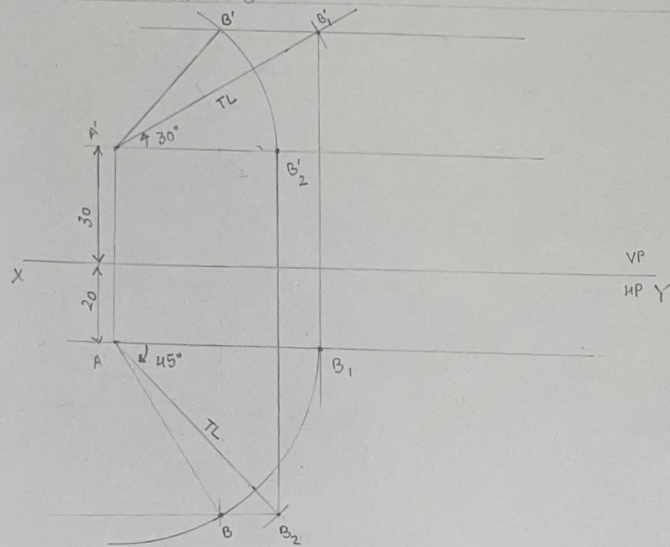
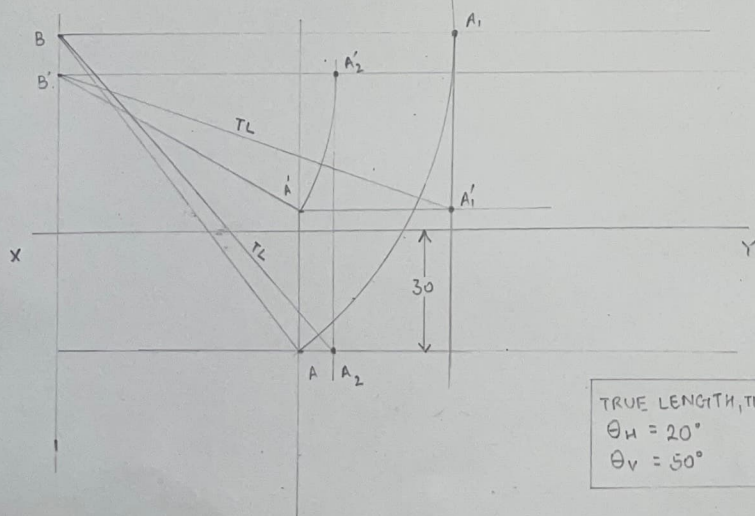


PROJECTIONS OF PLANES AND POINTS

1. STRAIGHT LINE AB IS 60mm LONG. IT IS INCLINED TO HP & VP BY AN ANGLE OF 30° AND 45° RESPECTIVELY. PT. A IS 30mm ABOVE HP AND 20mm IN FRONT OF VP. DRAW THE PROJECTIONS OF AB.

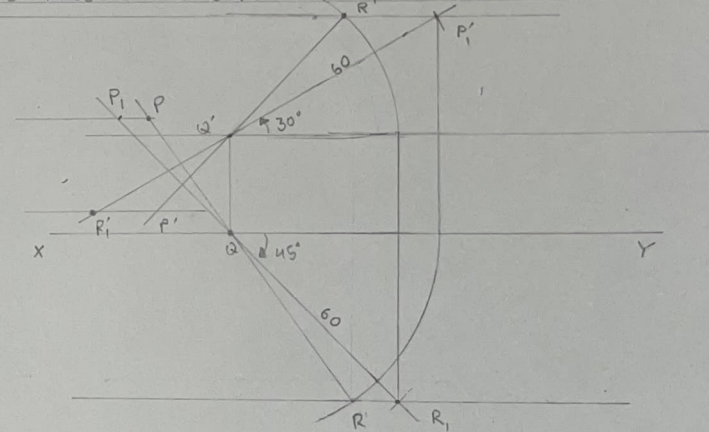


2. THE DISTANCE BETWEEN THE END PROJECTORS OF A STRAIGHT LINE AB, IS 60mm. PT. A IS 5mm ABOVE HP AND 30mm IN FRONT OF VP. PT. B IS 40mm ABOVE HP AND 50mm BEHIND VP. DRAW THE PROJECTIONS AND FIND THE INCLINATION OF STRAIGHT LINE AB WITH HP AND VP AND THE TRUE LENGTH OF LINE. ALSO FIND TRACES

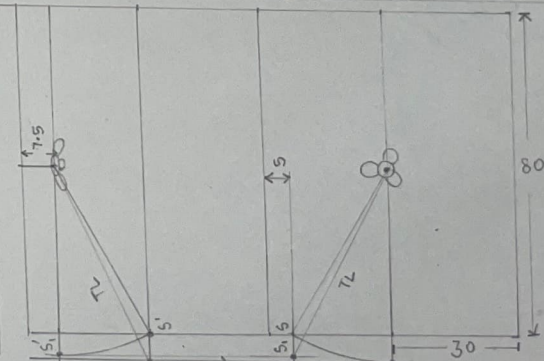


TRUE LENGTH, $TL = 106\text{mm}$
 $\theta_H = 20^\circ$
 $\theta_V = 50^\circ$

3. A LINE PQR, 100mm LONG IS INCLINED TO HP BY 30° & VP BY 45° , $PQ:QR = 2:3$. PT. Q IS IN VP AND 25mm ABOVE HP. DRAW THE PROJECTIONS OF THE LINE PQR WHEN PT. R IS IN THE 1ST QUADRANT. FIND THE POSITION OF PT. P. DRAW ALSO THE TRACES OF LINE PQR.



4. A FAN IS HANGING IN THE CENTER OF THE ROOM OF $4\text{m} \times 3\text{m} \times 3\text{m}$ HEIGHT. THE CENTER OF THE FAN IS 0.75m BELOW THE CEILING. THE SWITCH OF THIS FAN IS ON $3\text{m} \times 3\text{m}$ SIZE WALL AT THE CENTER HEIGHT & 0.5m FROM THE ADJACENT WALL. FIND THE DISTANCE BETWEEN THE FAN CENTER AND THE SWITCH.



SCALE

1cm = 1m

TRUE LENGTH = 5.3m

DISTANCE BETWEEN FAN & SWITCH