

Q1. A Plate chimney, 18 m high and 0.9 m diameter is supported by two sets of three guy wires each, as shown in Fig. 1. One set is attached at 3 m from the top and anchored 6 m above the ground level. The other set is fixed to the chimney at its mid-height and anchored on the ground. Determine the length and slope with the ground, of one of the wires from each set.

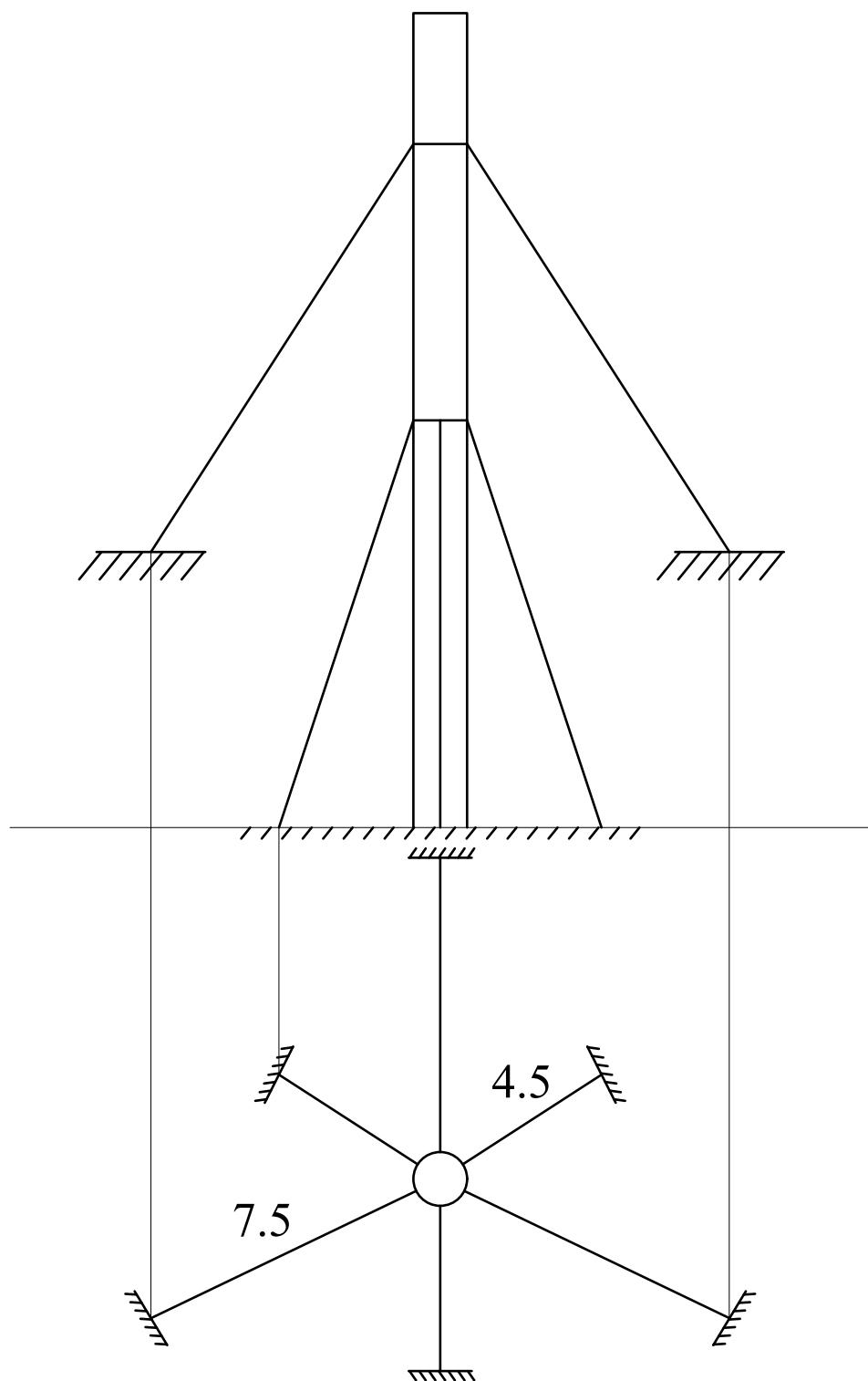
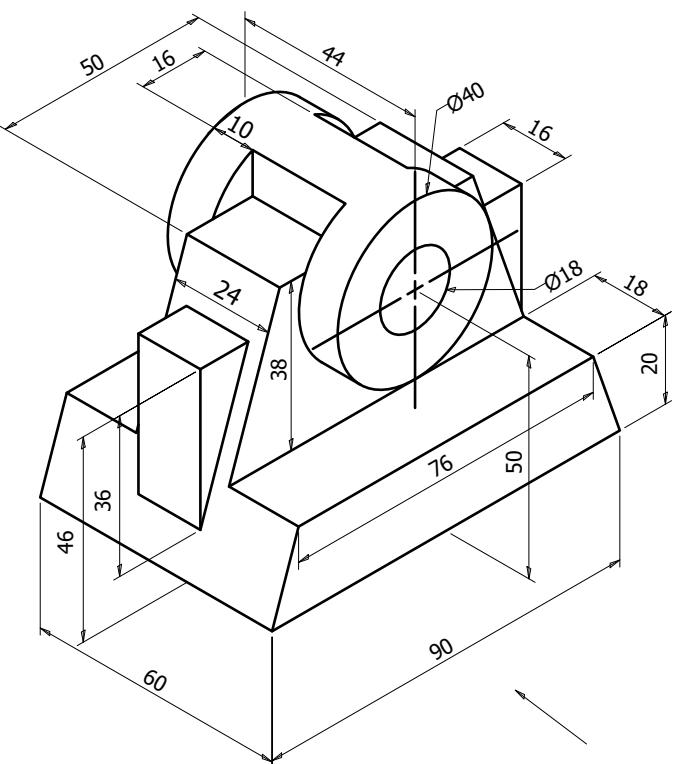
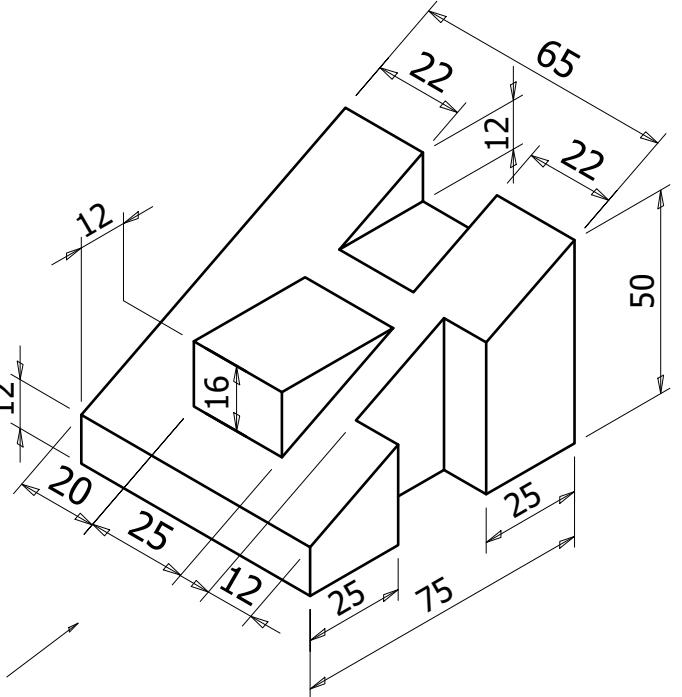


FIG. 1

Q2. A line is placed in 1st angle of projection whose one point is at a distance of 20 mm above the H.P. and the projection of line makes an angle of 60° with R.L in front view. The same point maintains a distance of 30 mm from the V.P. and the projection of line makes an angle of 45° with R.L in top view. Second Point is placed at the distance of 50 mm above the H.P.

Determine the True Length of the line by using rotation method.

Q3. Draw the orthographic View (Top, Front and Side View) of the FIG. 2 and FIG. 3 according to the frontal viewing direction:-

	
<u>Draw views in 1st Angle of Projection</u> Front, Top and Left side view	<u>Draw views in 3rd Angle of Projection</u> Front, Top and Right side view