

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.

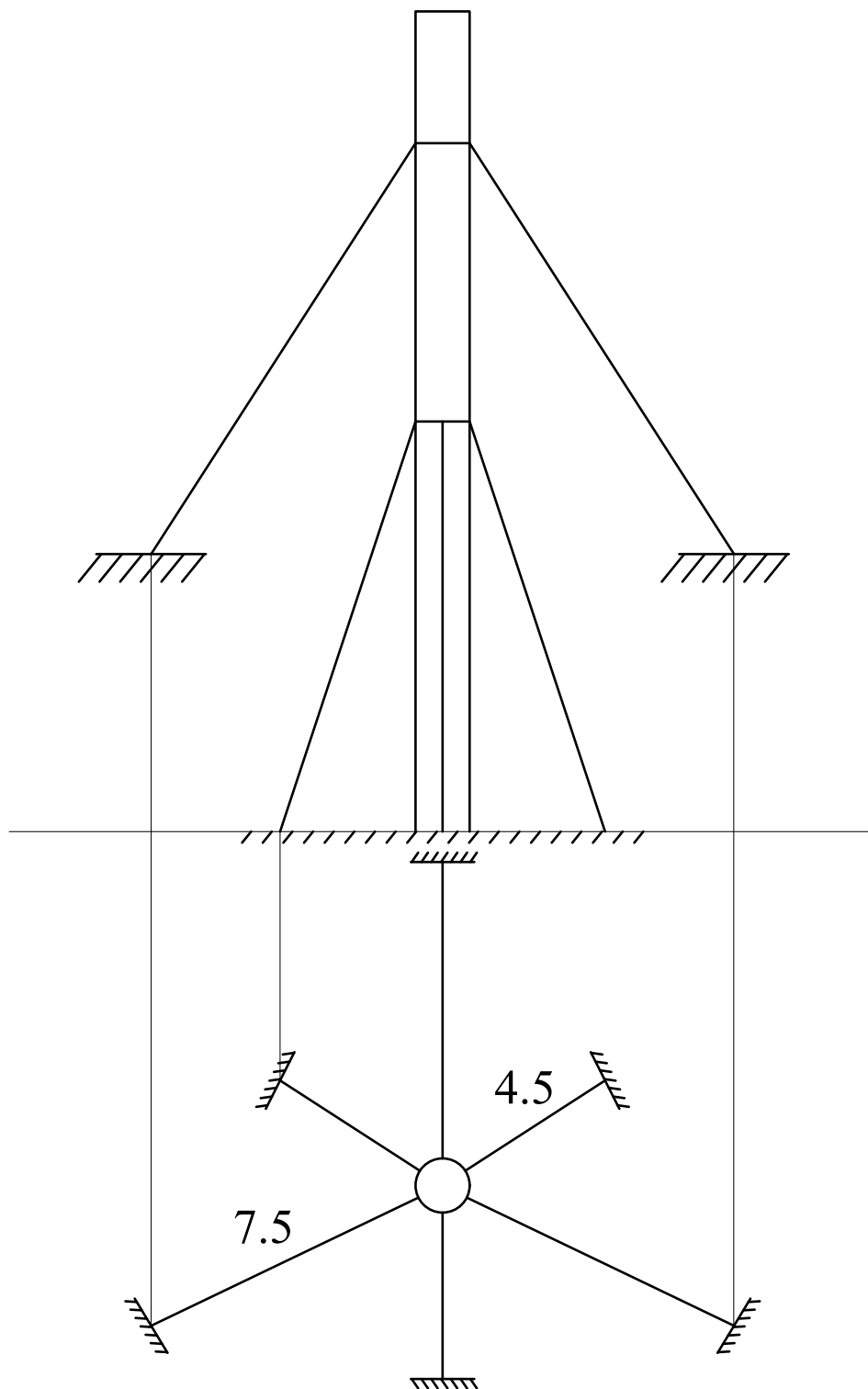


FIG. 1

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

Isometric view of a mechanical part. Dimensions are given in millimeters. The part features a base plate (90x60x20) with a central rectangular cutout (76x50). A vertical support (46x36x38) is positioned on the left. A horizontal flange (50x16x10) is mounted on top of the support. A central cylindrical component (Ø40x18) is attached to the flange. A small rectangular block (16x16x18) is positioned on the right side of the flange. A central hole (Ø18) is located in the base plate.

[illegible]

Draw views in 3rd Angle of Projection

Front, Top and Right side view