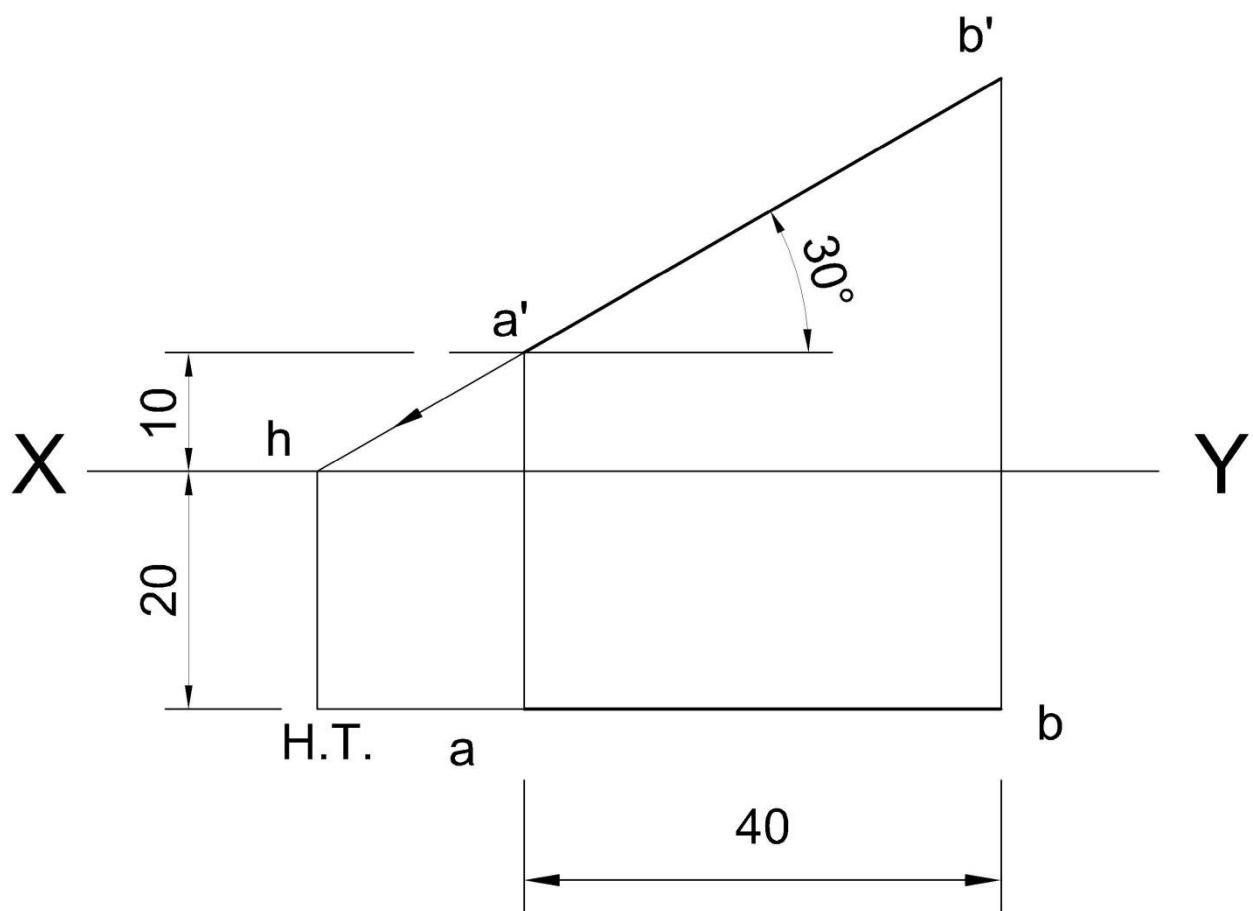


## **SHEET NO. 6: PROJECTION OF LINES**

- Q.1 A line AB parallel to V.P. and inclined at  $30^\circ$  to H. P. It measures 40 mm in top view. Its end A is 10 mm above the H.P. and 20 mm in front of the V.P. Draw the projections of this line in this position, what will be its true length? Find out its possible traces.
- Q.2 A line 80 mm long line is parallel to and 30 mm above H.P. Its two ends are 15 mm and 40 mm in front of V.P. respectively. Draw the three views of the line. Determine its inclination with V.P. and P. P. Locate its traces.
- Q.3 A line 80 mm long line is parallel to and 25 mm in front of V. P. It's one end is 25 mm above the H.P. while the other end is 45 mm above the HP. Draw its three views. Find its inclination with H.P. and P. P, also locate traces.
- Q.4 Straight line AB 60 mm long makes an angle of  $55^\circ$  to the HP and  $25^\circ$  to the VP. The end A is 10 mm above the HP and 10 mm in front of the VP. Draw the projections of the line AB.
- Q.5 Straight line AB 60 mm long makes an angle of  $55^\circ$  to the HP and  $25^\circ$  to the VP. The one end of the straight line AB lies in the HP and is 20 mm in front of the VP. Draw the projections of the line AB.
- Q.6 A straight line AB is 50 mm long. Its one end A is 40 mm from the H.P. and 12 mm from V.P. and other end B is 32 mm from the V.P. and 20 mm from the H.P. Draw the projections.

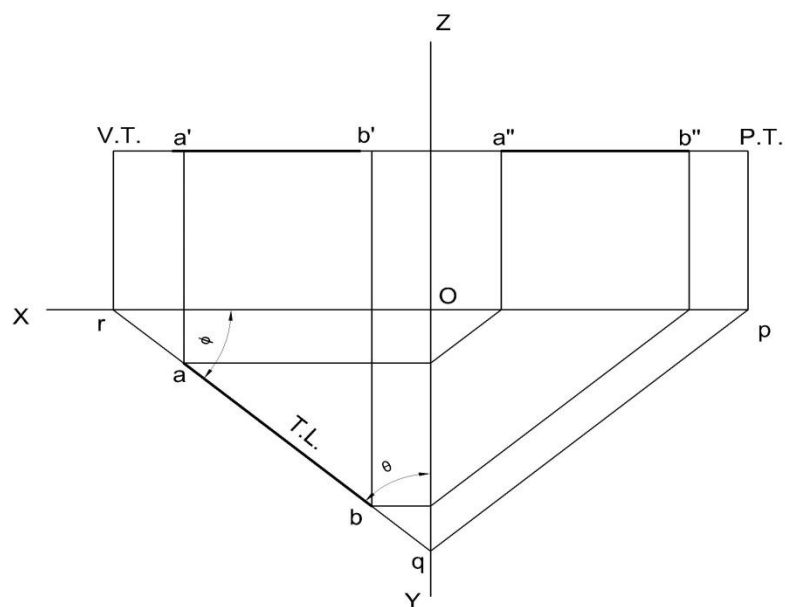
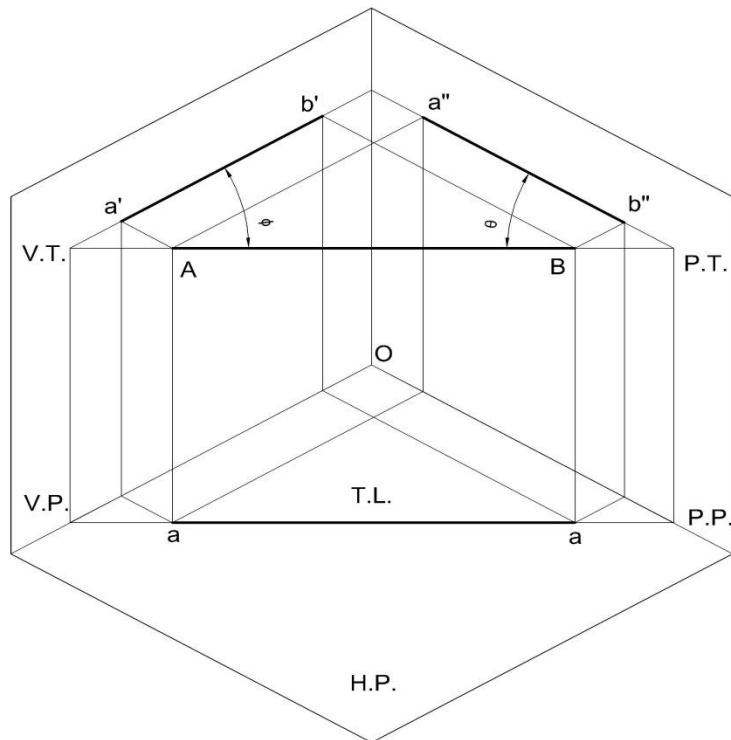
Hints/Solution for Q.1



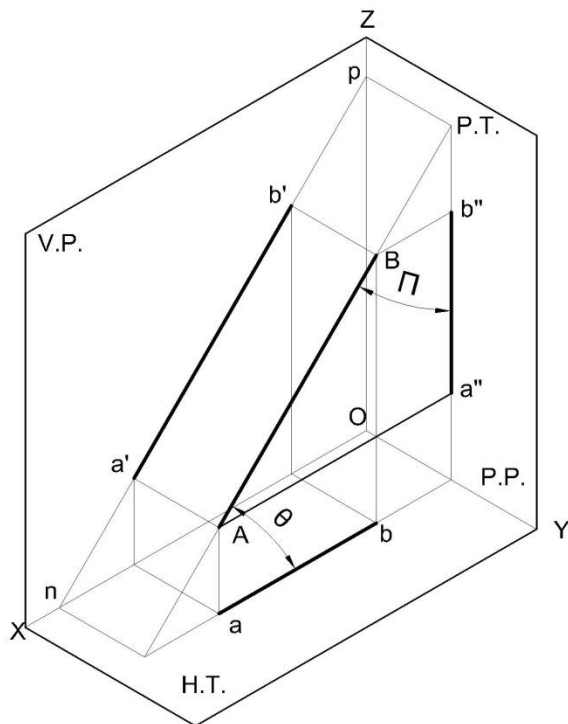
Hints/Solution

for

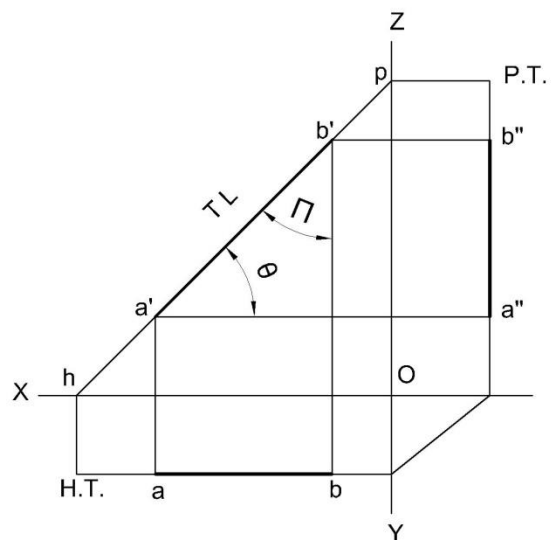
Q.2



Hints/Solution for Q.3

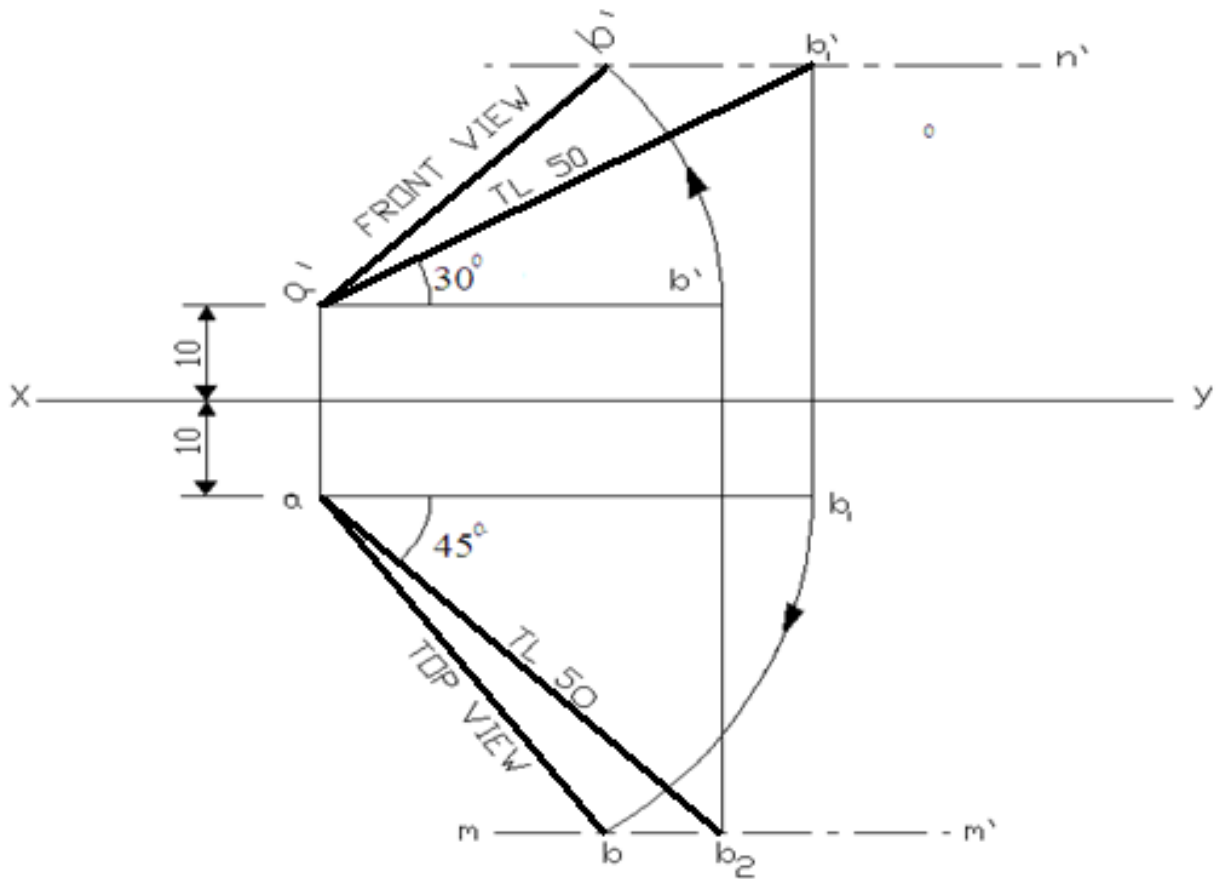


(a)

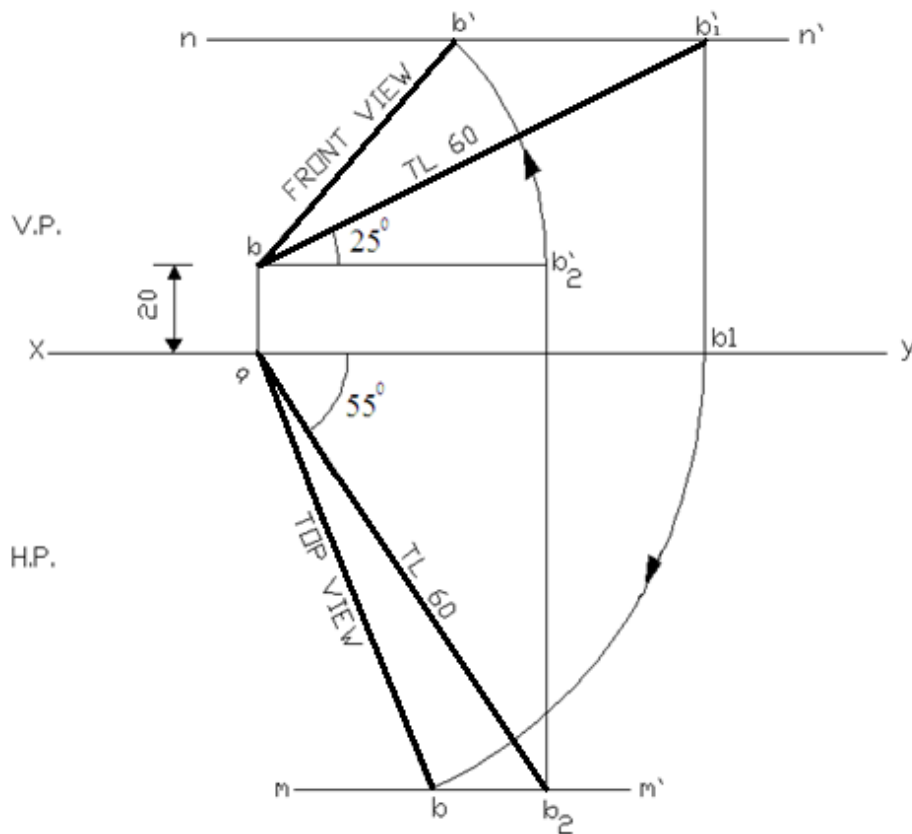


(b)

Hints/Solution for Q.4



Hints/Solution for Q.5



Hints/Solution for Q.6

