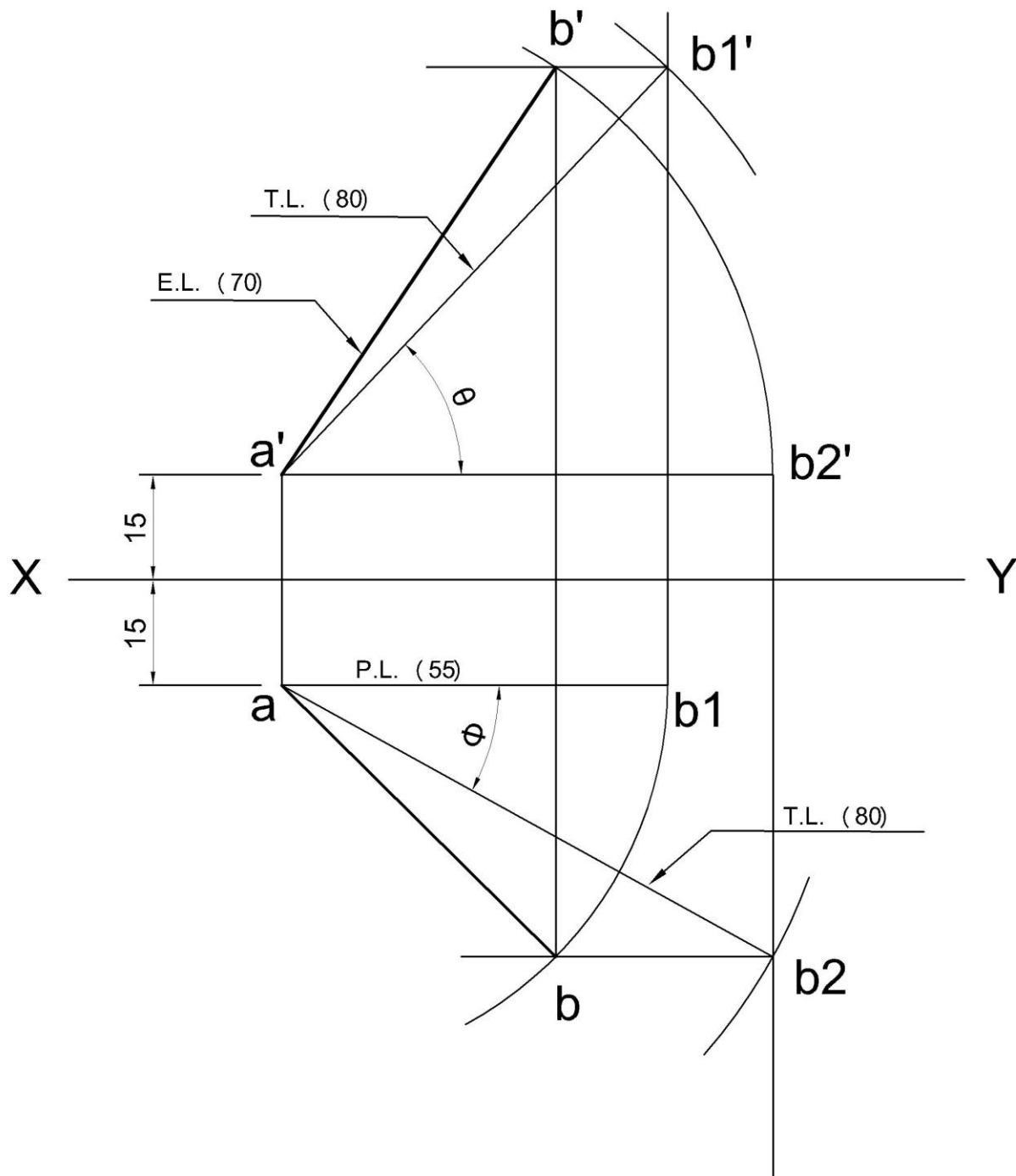


SHEET NO. 7: PROJECTION OF LINES

Problem 16.10, 16.13, 16.22, 16.12, 16.23, Ex B 06, 08

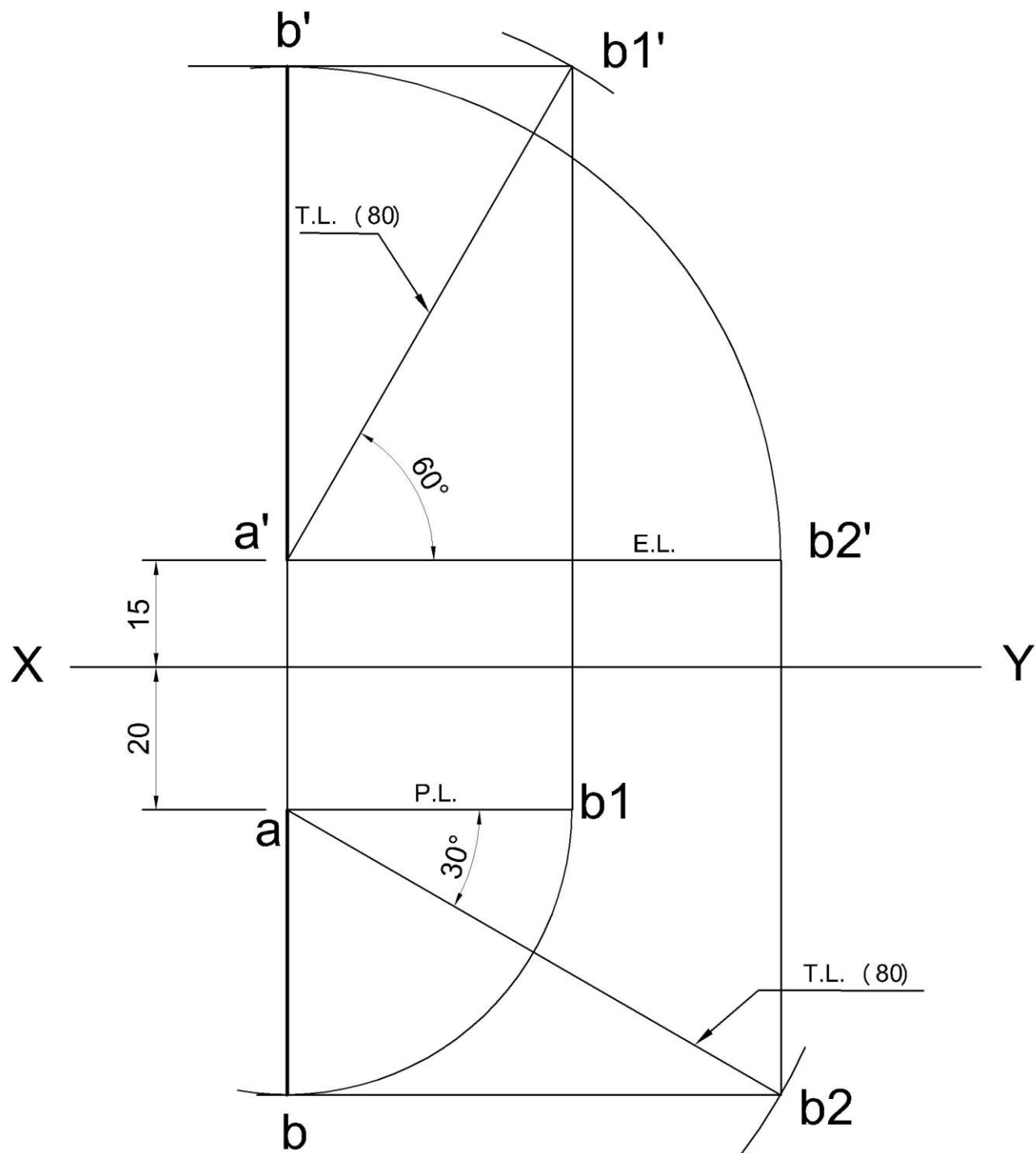
- Q.1 The top view of 80 mm long line AB measures 55 mm, while the length of its front view is 70mm. Its one end A is 15 mm above the HP and 15 mm in front of the VP. Draw its projections and determine then its inclination with The HP and the VP.
- Q.2 A line AB 80 mm long, has its end A 15 mm above HP and 20 mm in front of the VP. The line is inclined at 60° to H.P. and 30° to V.P. draw its projections.
- Q.3 The front view of a line AB measures 60 mm and makes an angle of 45° with XY. A is in the HP and the VT of the line is 20 mm below the HP. The line is inclined at 30° to the VP. Draw the projections of the line AB and find its true length and the inclination with the HP. Also locate its HT.
- Q.4 A line AB, 75 mm long, has its end A in the H.P. and 10 mm in front of V.P. The end B is 55mm above the H.P. and 50 mm in front of the V.P. Draw the projections of AB and determine its inclinations with the H.P. and the V.P.
- Q.5 A line AB is in the first quadrant. Its end A and B are 10 mm and 30 mm in front of the V.P. respectively. The distance between the end projectors is 35 mm. The line is inclined at 30° to the H.P. and its H.T. is 10 mm above XY. Draw the projections of AB and determine its true length and the V.T.
- Q.6 A Line AB 80 mm in length is inclined at 30° to the HP and 45° to the VP. Its middle point is 30 mm above H.P and 40 mm in front of V.P. Draw its projections.
- Q.7 A line AB, 70 mm in length measures 60 mm in top view and 50 mm in front view. Its one end A is in the H. P. and other end B is in the V. P. Draw its projections and determine (i) Its inclination with H. P. and V. P. (ii) H. T. and V. T.
- Q.8 Draw its projections of a line AB, 75 mm long which is inclined at 45° to V.P. and 30° to H.P. the end A is in H.P. and end B is in V.P. Draw its projections and determine H. T. and V. T.

Hints/Solution for Q.1



Roop Lal Rana

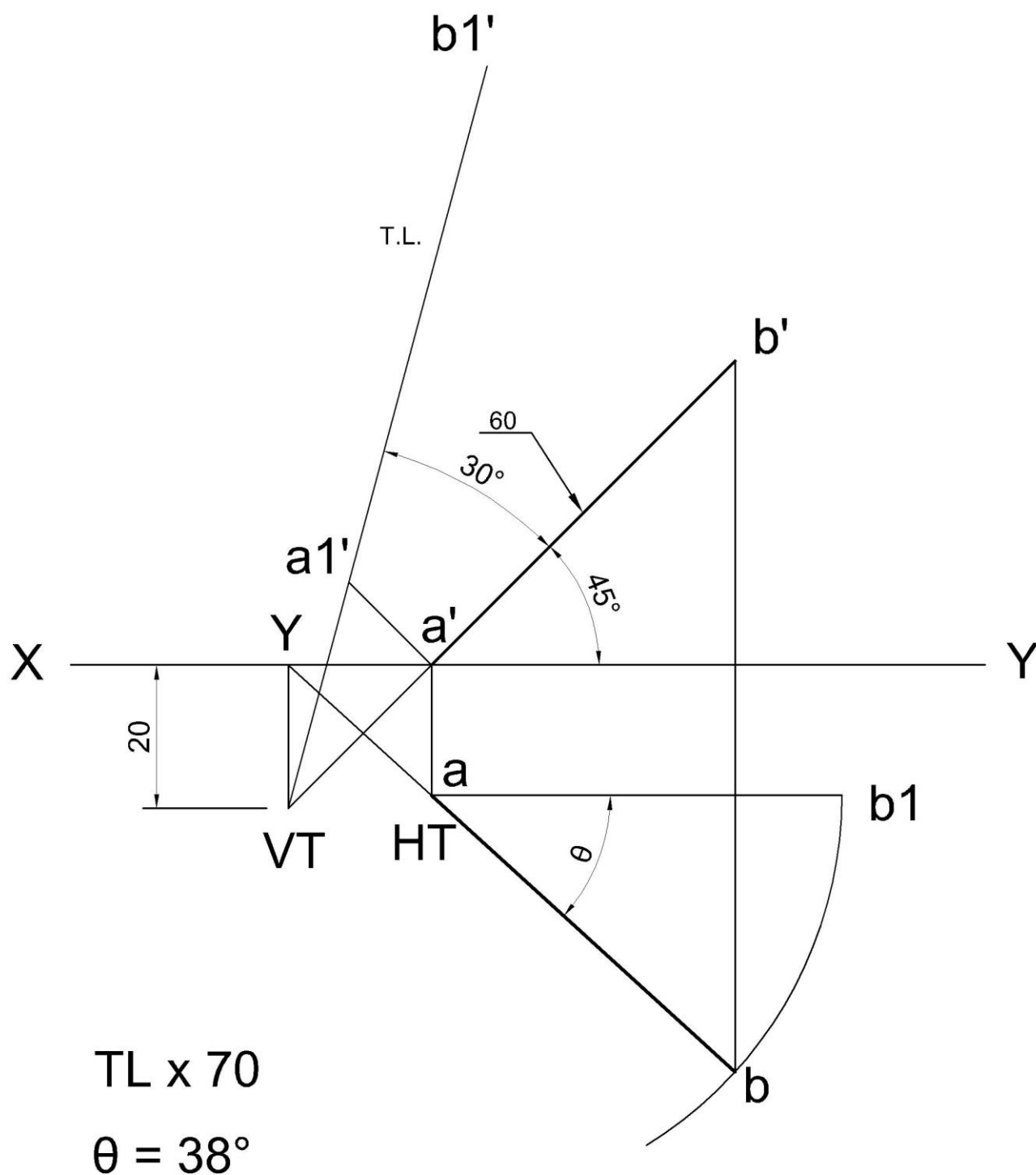
Hints/Solution for Q.2



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Hints/Solution for Q.3



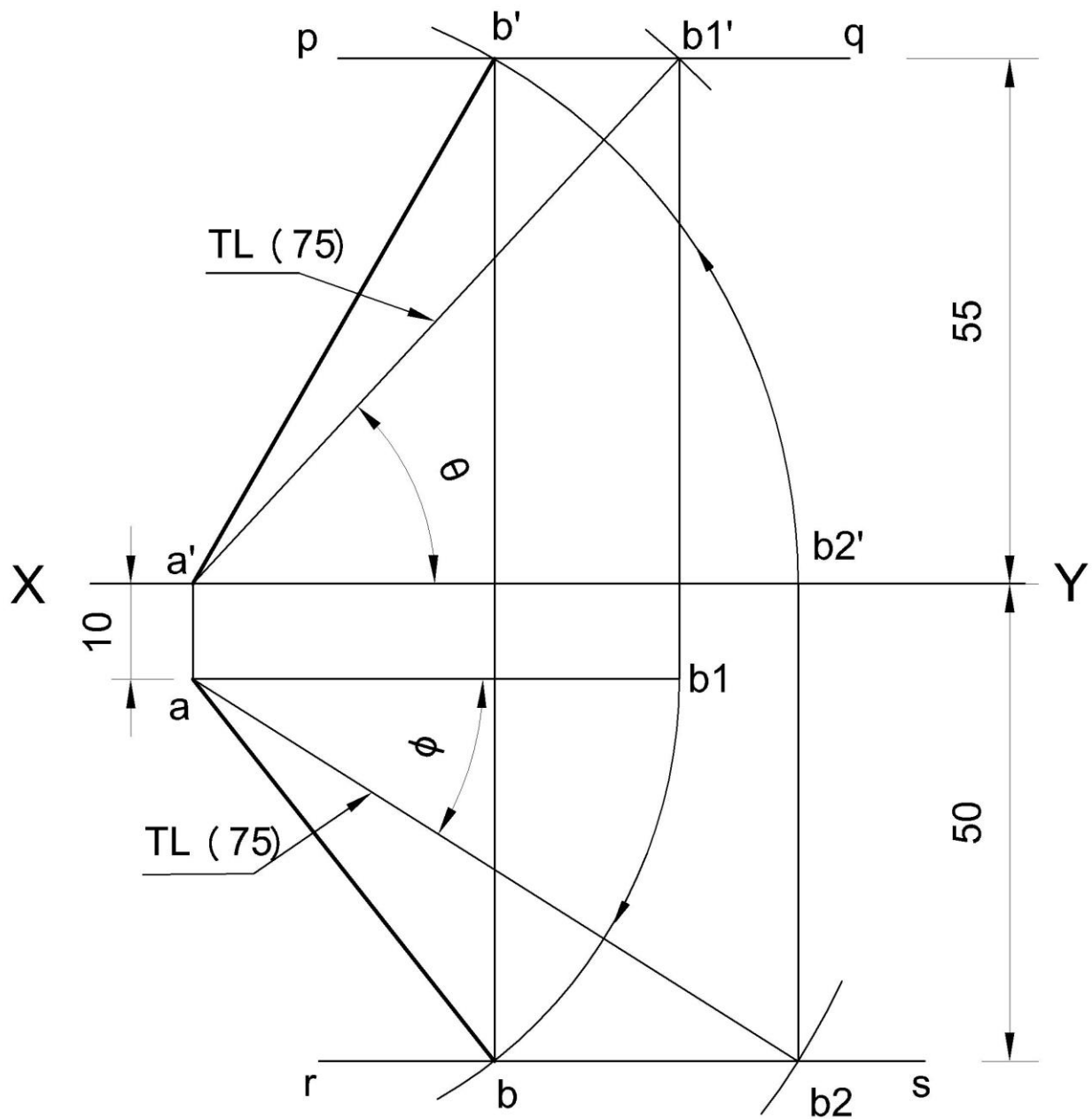
ROOP LAL
 (Assistant Professor)

Sheet No. 7

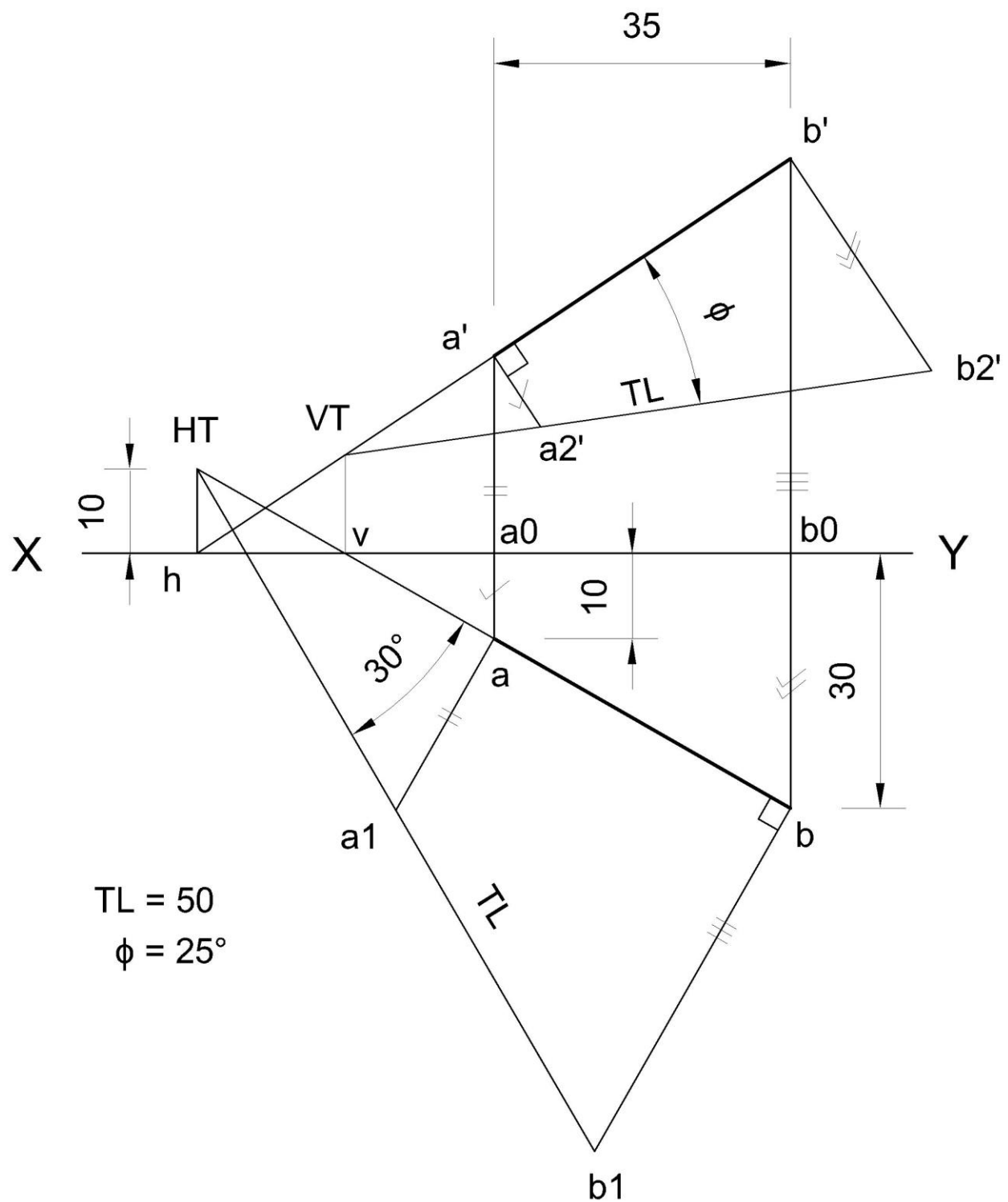
Mechanical Engineering Department

Delhi Technological University

Hints/Solution for Q.4



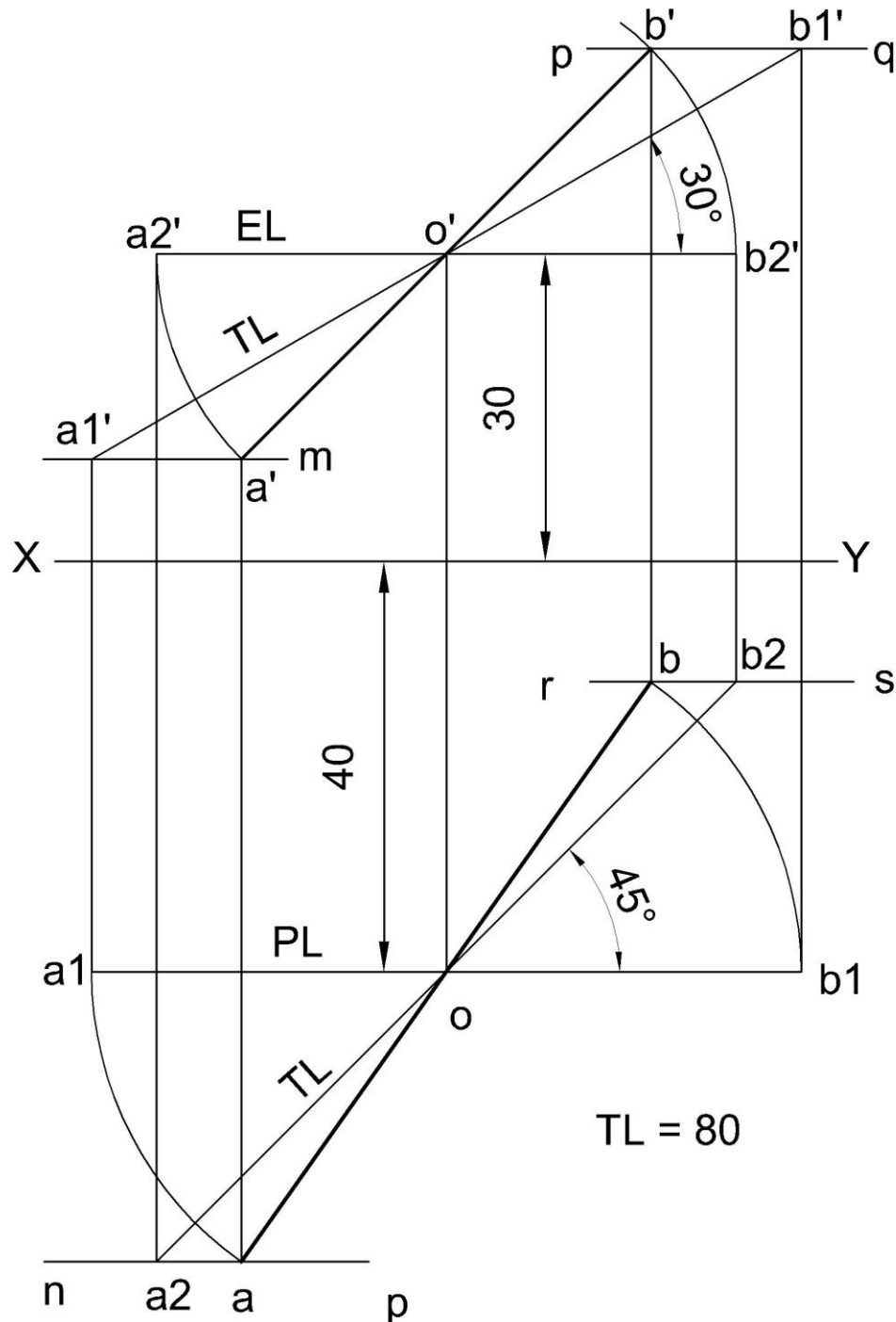
Hints/Solution for Q.5



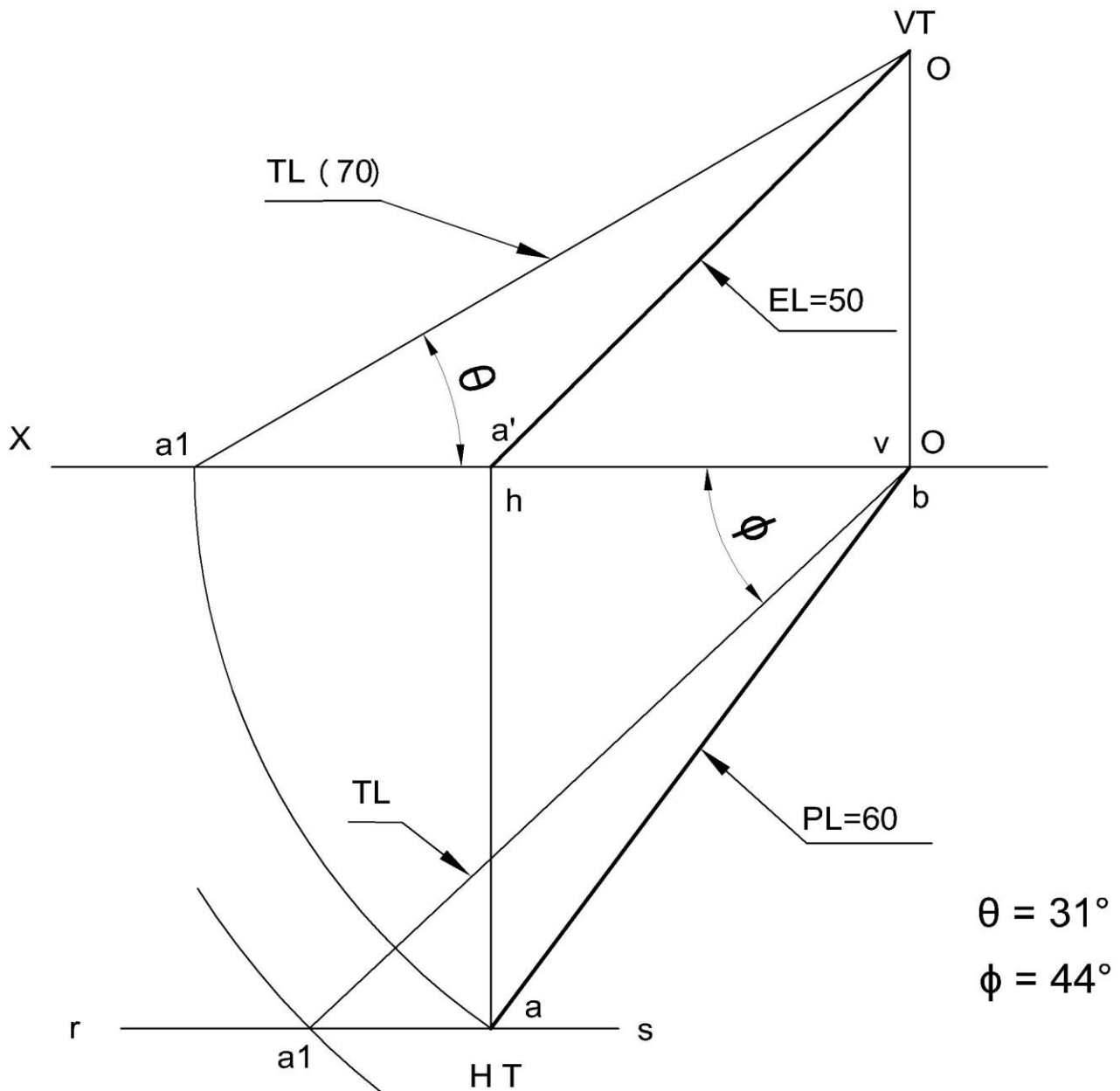
$$TL = 50$$

$$\phi = 25^\circ$$

Hints/Solution for Q.6



Hints/Solution for Q.7



Hints/Solution for Q.8

