

**Tutorial No. 6 (Manual Drafting)
(AUXILIARY PROJECTIONS)**

(Time: 4 Hours)

1. End D of line DE is 10 mm in front of VP and 40 mm above HP. End E is 35 mm in front of VP and 5 mm above HP. Distance between the end projectors is 55 mm. Draw the projections of the line. Also project the following views:
(a) Auxiliary top view (plan) on an AIP inclined 60° to HP.
(b) Auxiliary front view (elevation) on an AVP inclined 40° to VP.
2. Orthographic views (in first angle projection) and Isometric view of an object having inclined surface (shaded) are shown below. Draw the partial primary auxiliary view showing the true shape of the shaded surface.

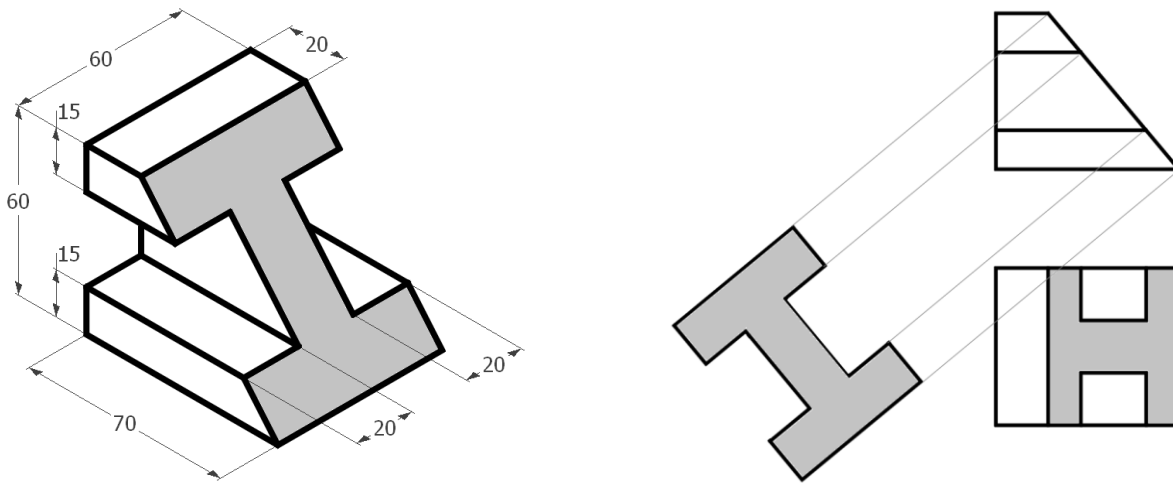


Figure 1

3. Figures 2 and 3 show the pictorial views of different machine parts. Draw the partial primary auxiliary views showing true shape of the inclined surface (shaded).

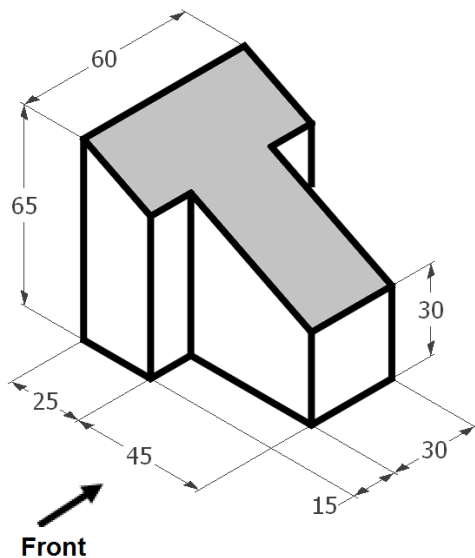


Figure 2

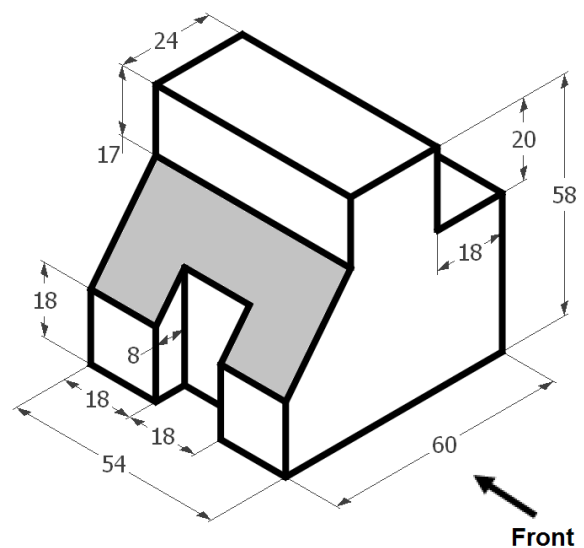


Figure 3

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4. Figure 4 shows isometric view of an object, Draw the complete auxiliary view showing the true shape of inclined surface.

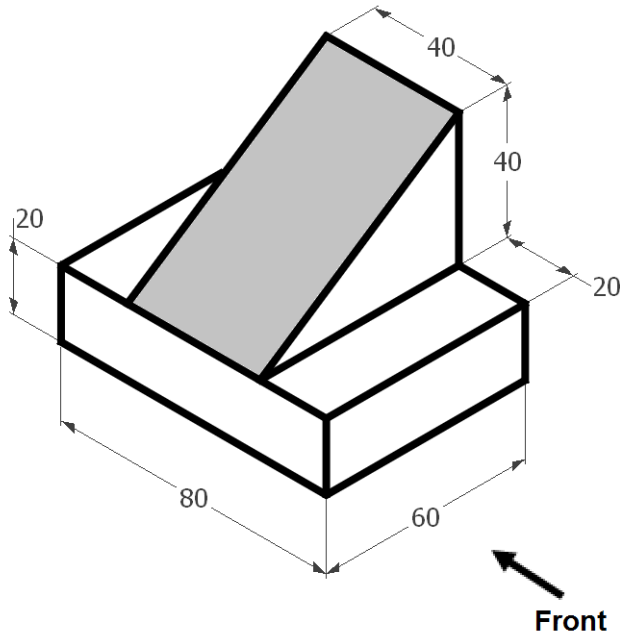


Figure 4

5. Front view of a truncated cylinder and isometric view are shown in figure 5. Draw the auxiliary view showing true shape of the cut surface.

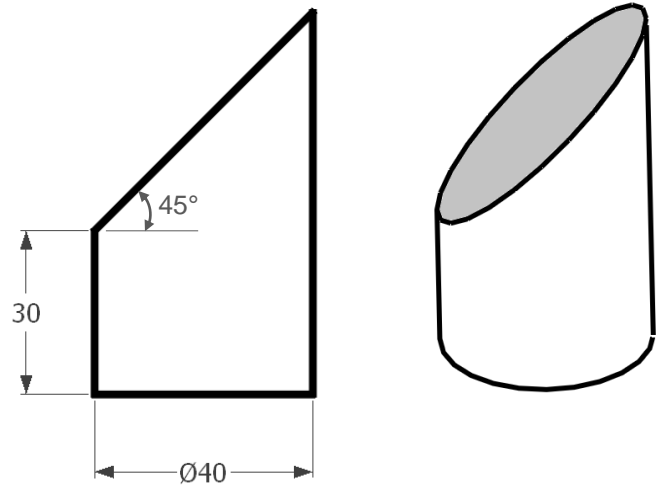


Figure 5

6. Isometric view of an object is shown in figure 6. Obtain the true shape of any of the oblique surfaces.

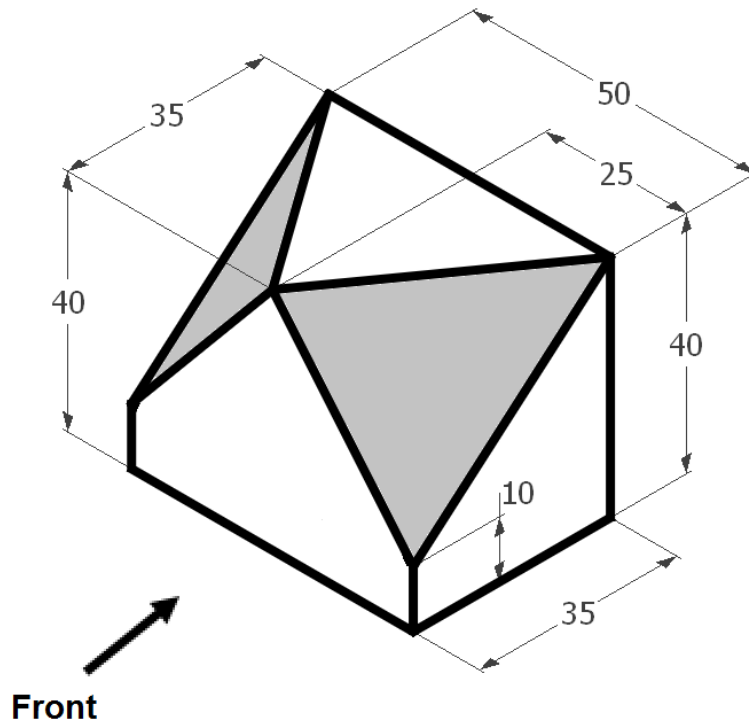


Figure 6