MECHANICAL ENGINEERING DEPARTMENT

Course No.: UTA015 Course Title: ENGG. DRAWING

Tutorial No. 6 (AutoCAD)
(AUXILIARY PROJECTIONS)

(Time: 4 Hours)

1. End A of line AB is 10 mm in front of VP and 40 mm above HP. End B is 50 mm in front of VP and 10 mm above HP. Distance between the end projectors is 60 mm. Draw the projections of the line, determine its true length and find inclinations with HP and VP using auxiliary plane method.

2. Orthographic views (in first angle projection) and Isometric view of an object having inclined surface (shaded) are shown below. Draw the full primary auxiliary view showing the true shape of the inclined surface.

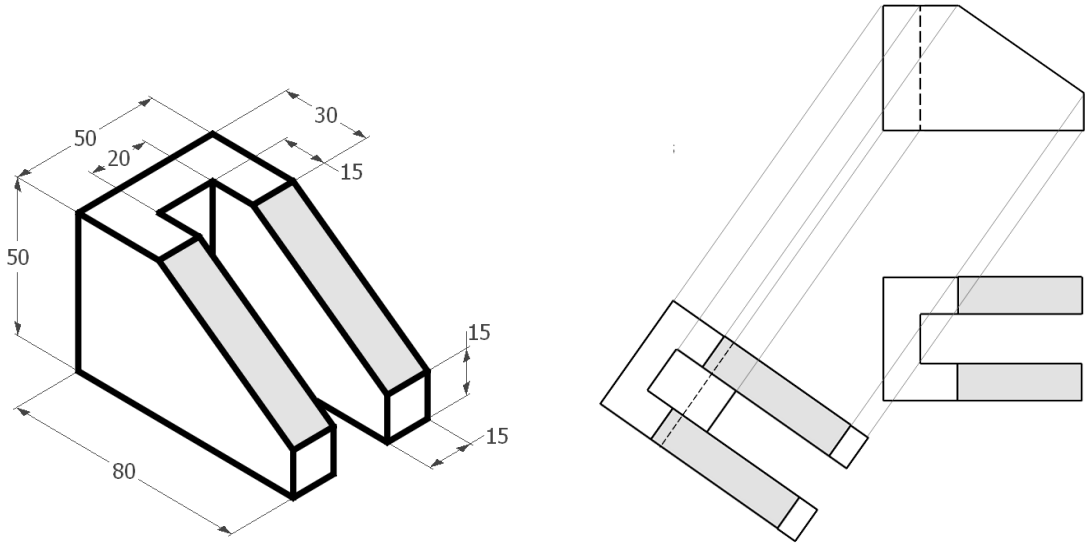

Fig 1

3. Following figures show the pictorial views of different machine parts. Draw the primary auxiliary views of showing true shape of the inclined surface.

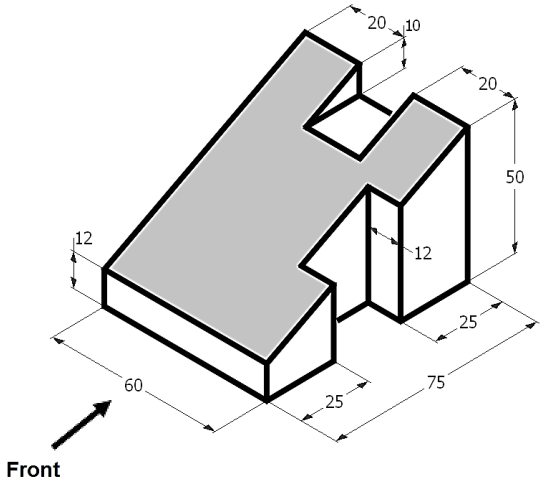

Fig 2

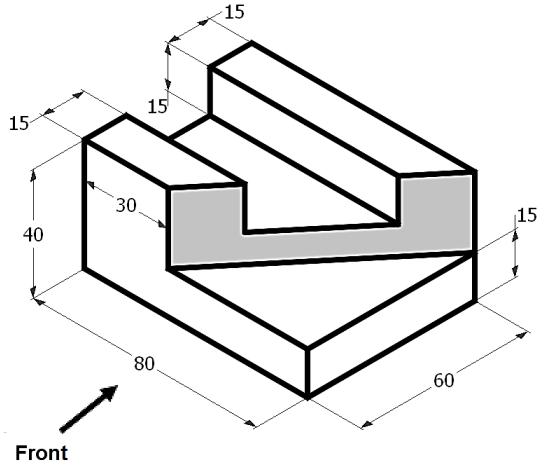

Fig 3

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Q4. Following figure shows isometric view of an object, Draw the auxiliary view showing the true shape of the inclined surfaces.

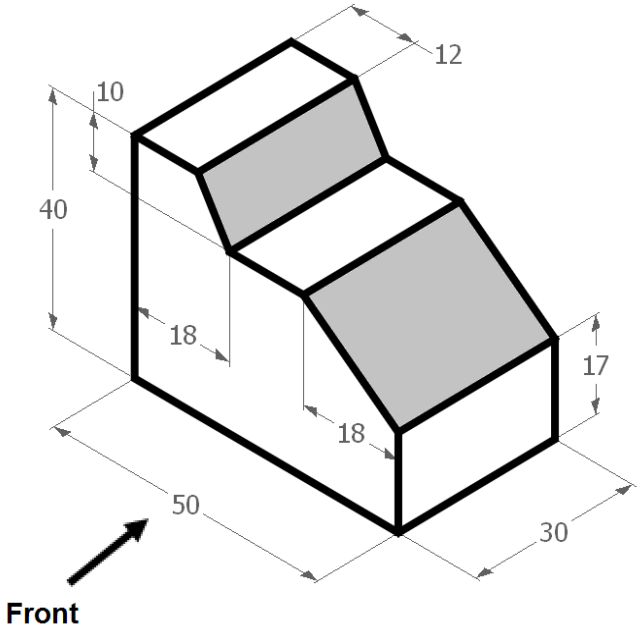

Fig 4

Q5. Front and top views of a truncated hollow cylinder are shown below. Draw the auxiliary view showing true shape of the cut surface.

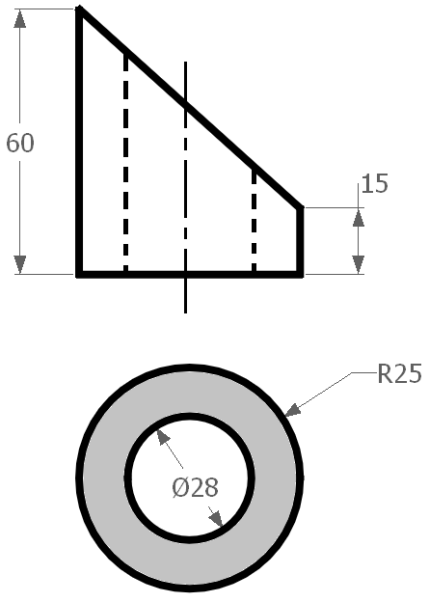

Fig 5

Q6. A cube of edge length 60, is cut as shown in figure. Obtain the true shape of the oblique surface of the cube.

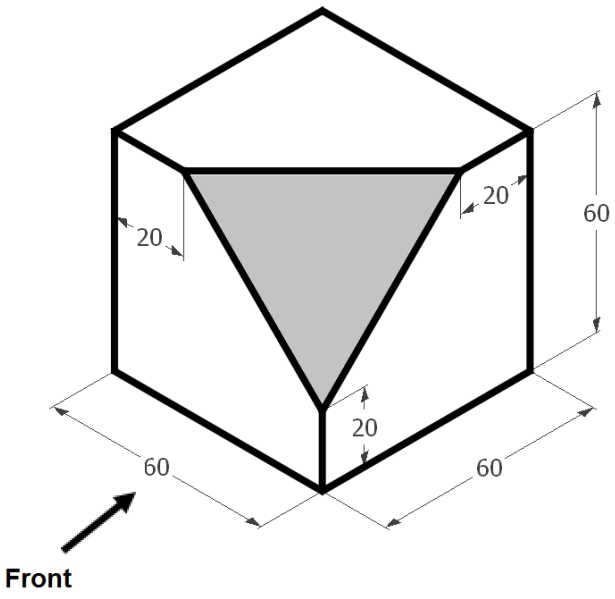

Fig 6