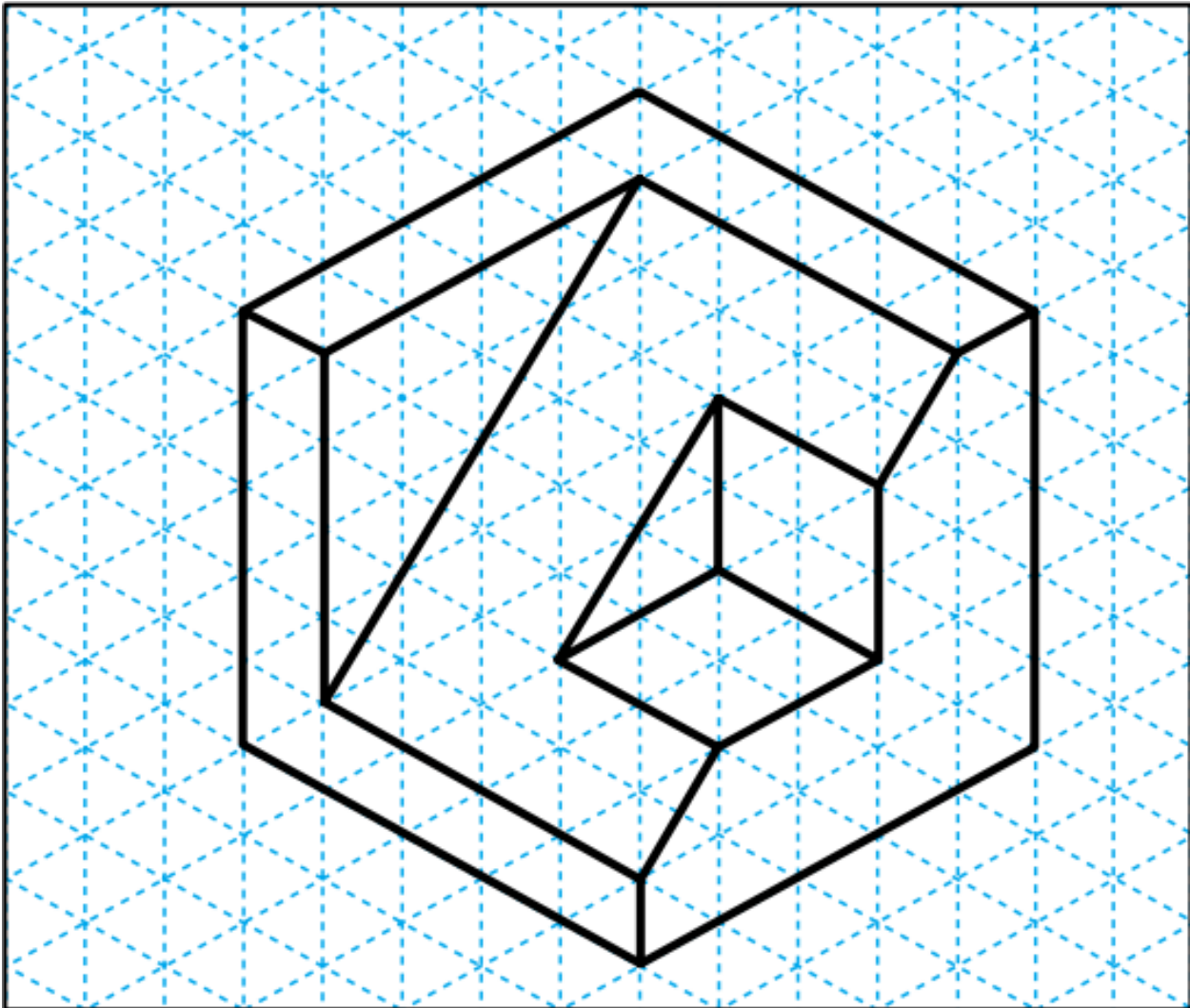


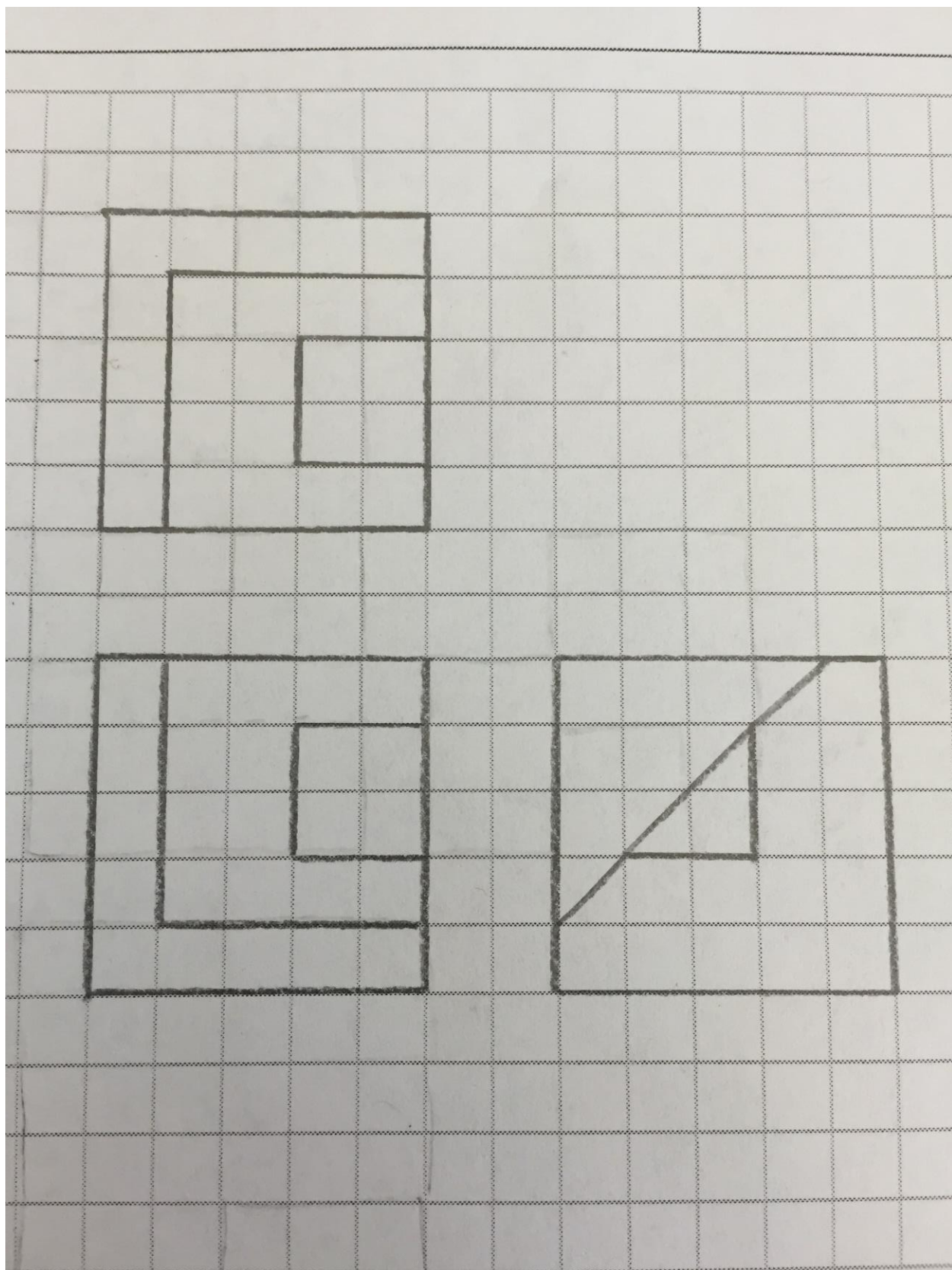
## Engineering Drawing Skills

### Multi-View:

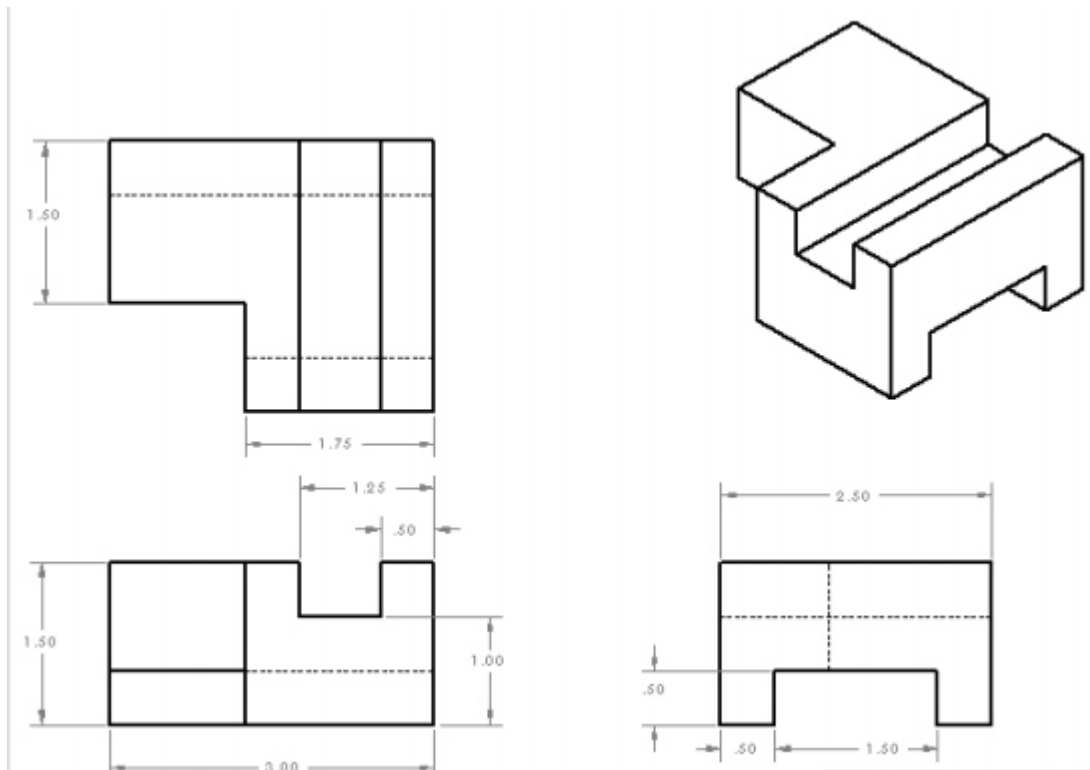
A multi-view drawing is a drawing which contains views of an object projected onto two or more orthographic planes. The top, front, and right views are drawn by observing the isometric view of the object.

Example:



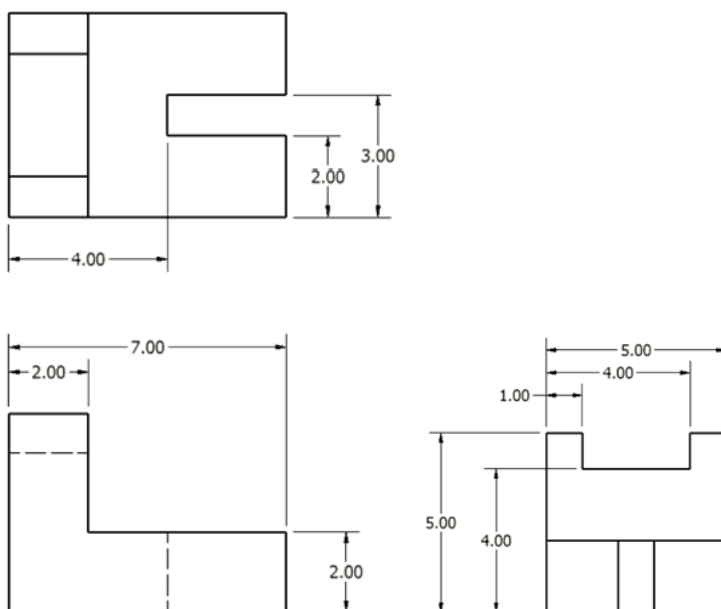


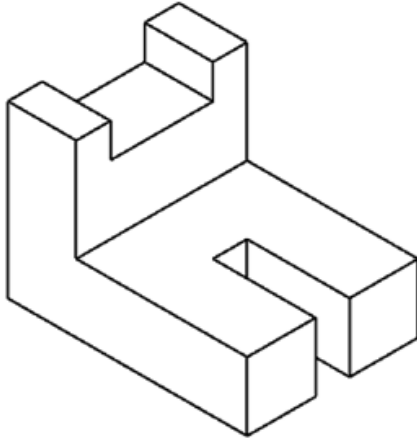
## Example 2:



## Isometric View:

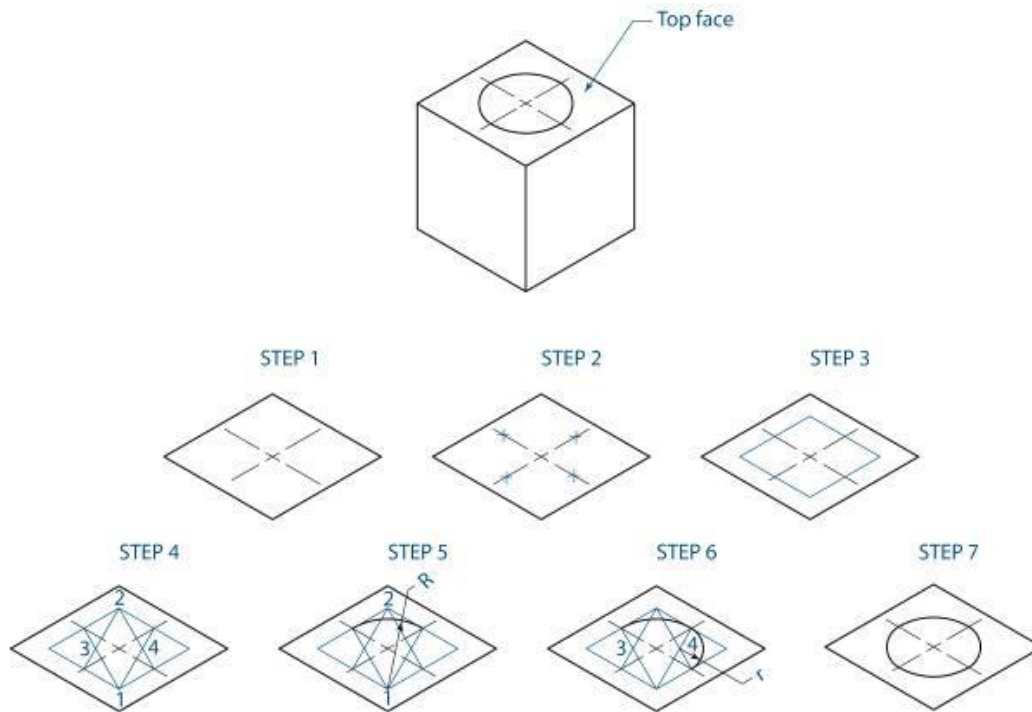
From a multi-view drawing, an isometric drawing can be created. The isometric drawing presents the object in three dimensions by applying a 30 degree angle to its sides.

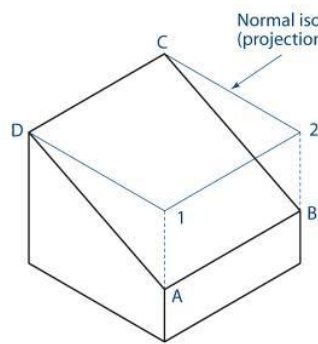




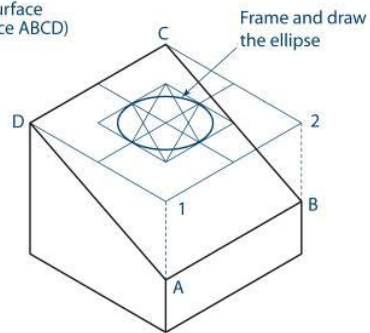
### Ellipses:

The methods to drawing ellipses on the isometric view as well as on an inclined plane was studied. This skill is displayed in the following series of pictures.

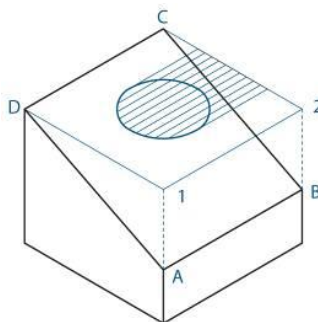




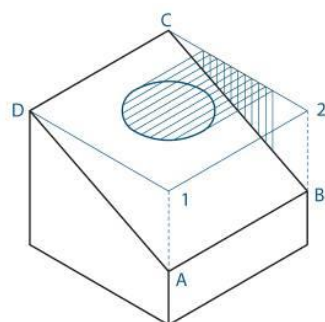
Step 1



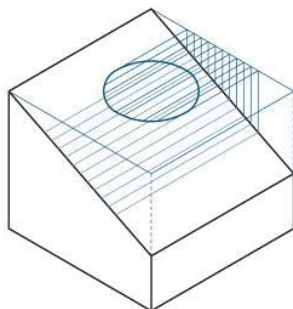
Step 2



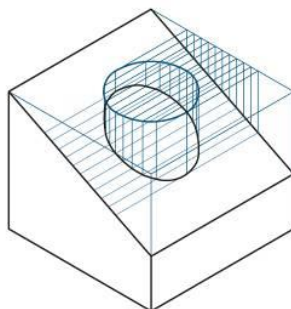
Step 3



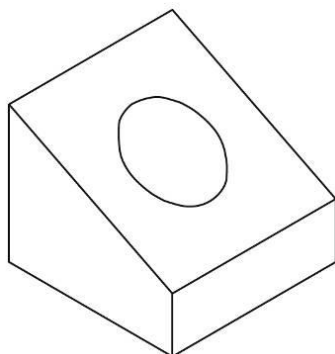
Step 4



Step 5



Step 6



## Sectional View:

The section view of an object exposes or cuts the surface to show the internal part detail as solid lines instead of hidden lines in order to improve the communication of the make-up of the object. How to draw a sectional view is displayed in the following picture.

