

JYOTHISHMATHI INSTITUTE OF TECHNOLOGY AND SCIENCE,

NUSTULAPUR, KARRIMNAGAR-27



ISOMETRIC PROJECTIONS

Prepared by

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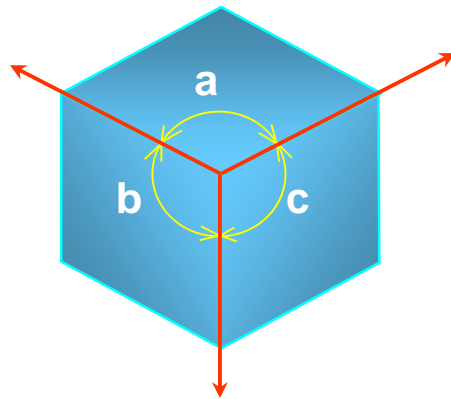
Asst. proff

Dept: mechanical

Isometric Projections:

It is a type of pictorial projection in which all three dimensions of an object are shown in one view.

In this, an object is so placed that, its three mutually perpendicular edges are equally inclined with the plane of projection. So all three dimensional axes appear at equal inclinations with each other (120°).



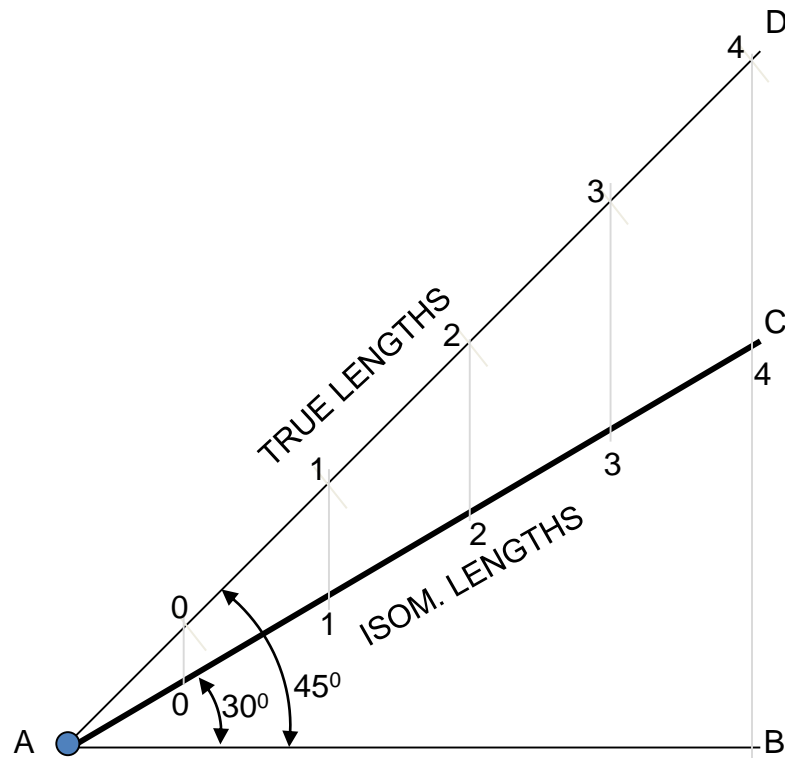
Isometric Planes:

The planes representing the faces of the cube are called Isometric Planes.

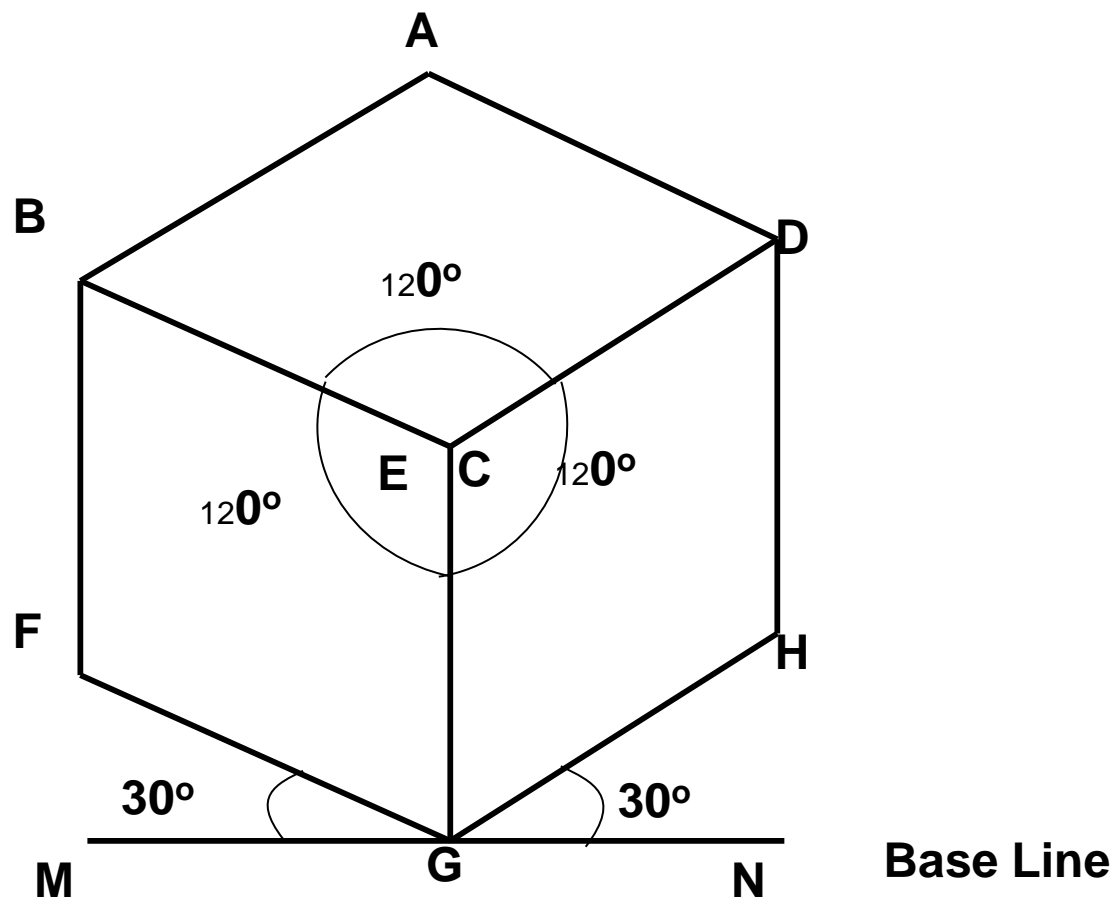
Isometric scale:

When one holds the object in such a way that all three dimensions are visible then in the process all dimensions become proportionally inclined to observer's eye sight and hence appear apparent in lengths.

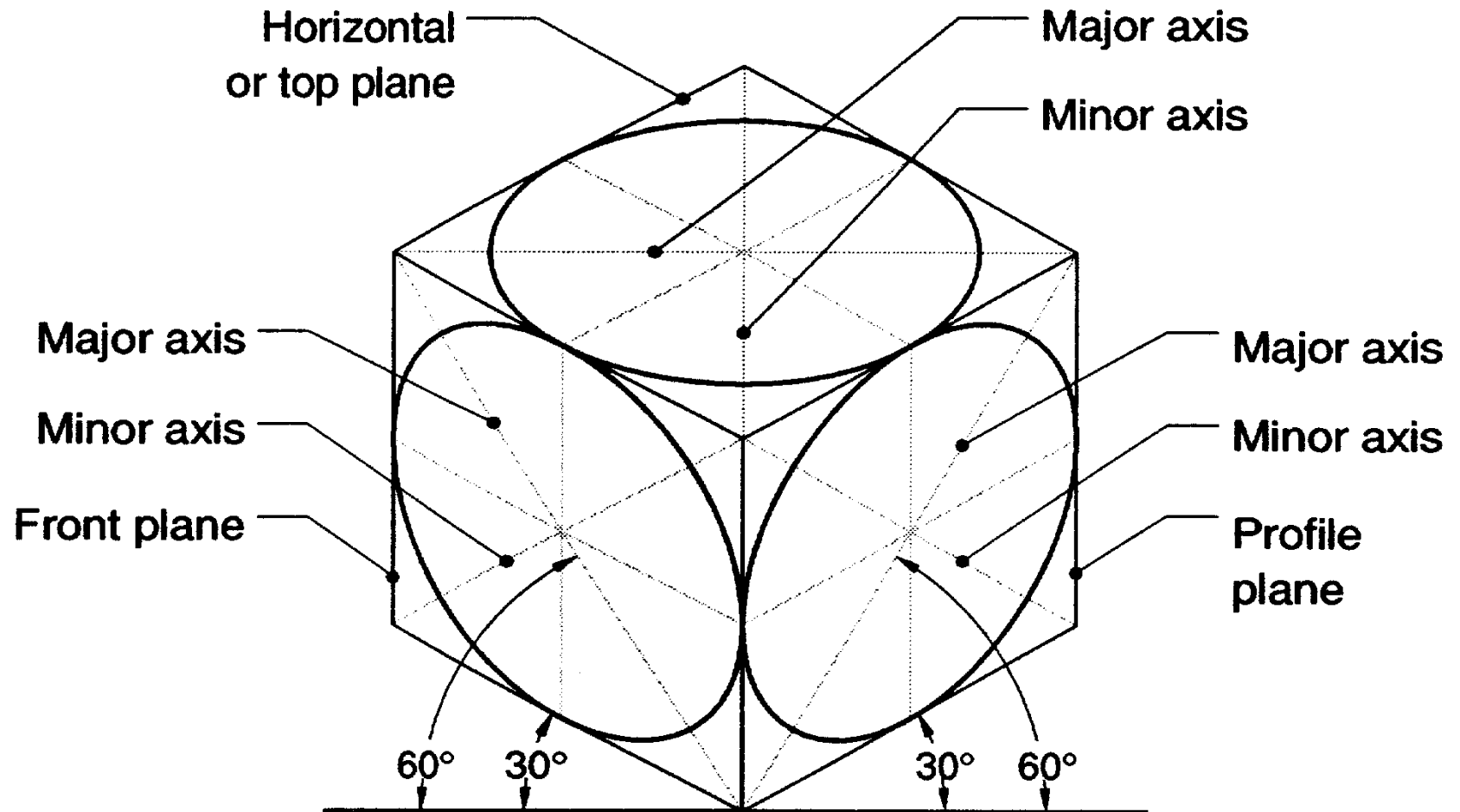
In practice, while drawing isometric projection, it is necessary to convert true lengths into isometric lengths.

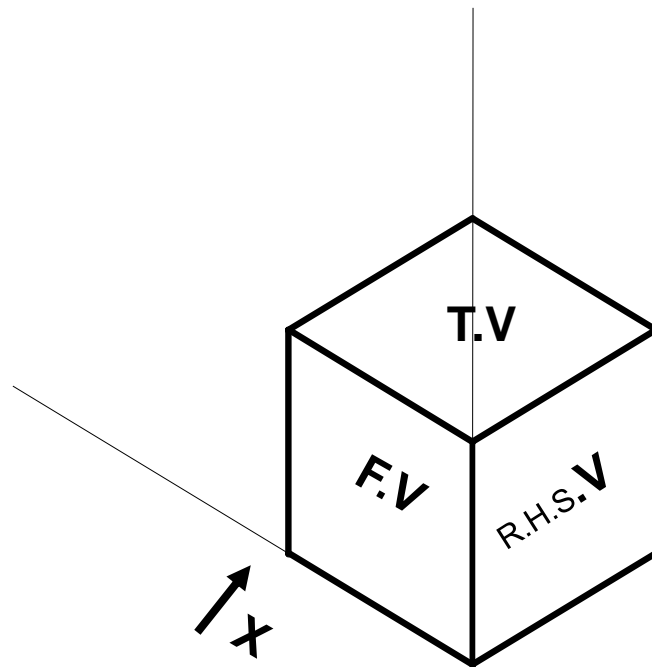
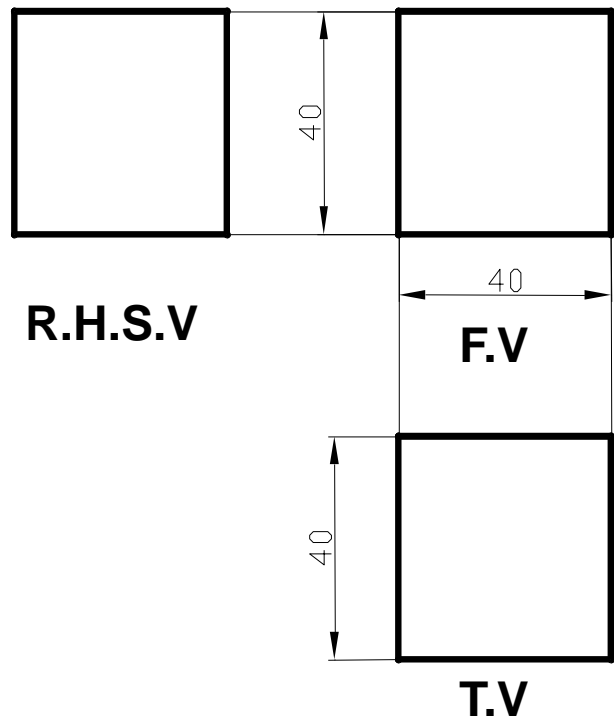


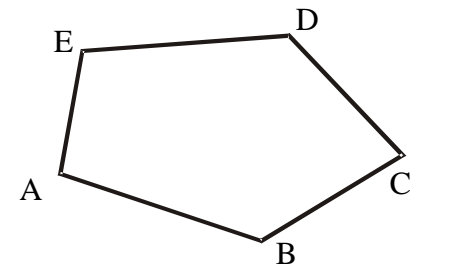
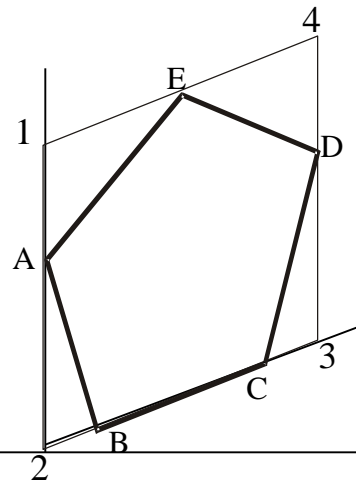
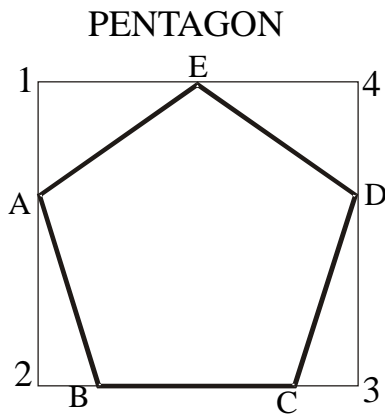
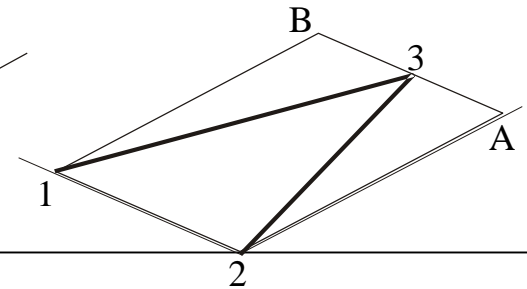
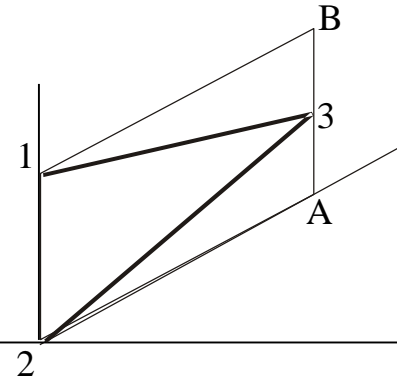
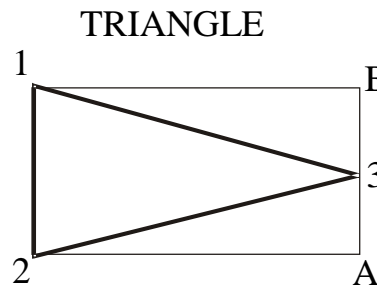
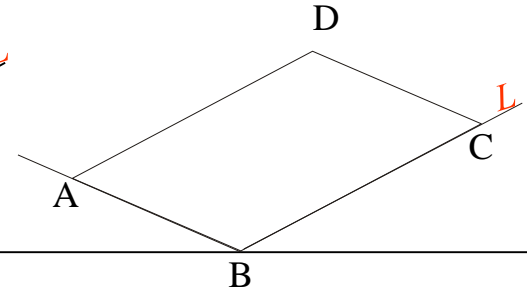
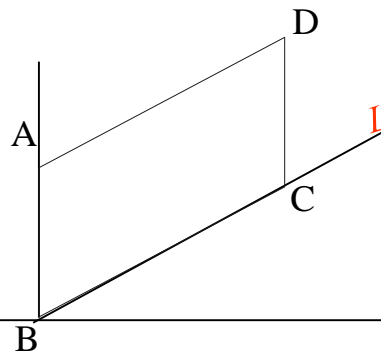
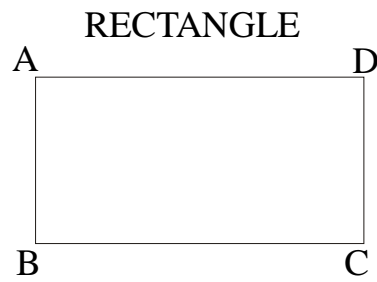
Isometric scale (Line AC) required for Isometric
Projection



Ellipses can be in any of three planes







Isometric view if the Shapes

