

PABLO

MECH 161 – INTRO. TO
COMPUTER AIDED DESIGN
INTRODUCTION TO AUTODESK
AUTOCAD
ISOMETRIC

By Mr Ebenezer Nyarko Kumi / Mr Bright Osafo Adunu

Outline

2

- Isometric Drawings

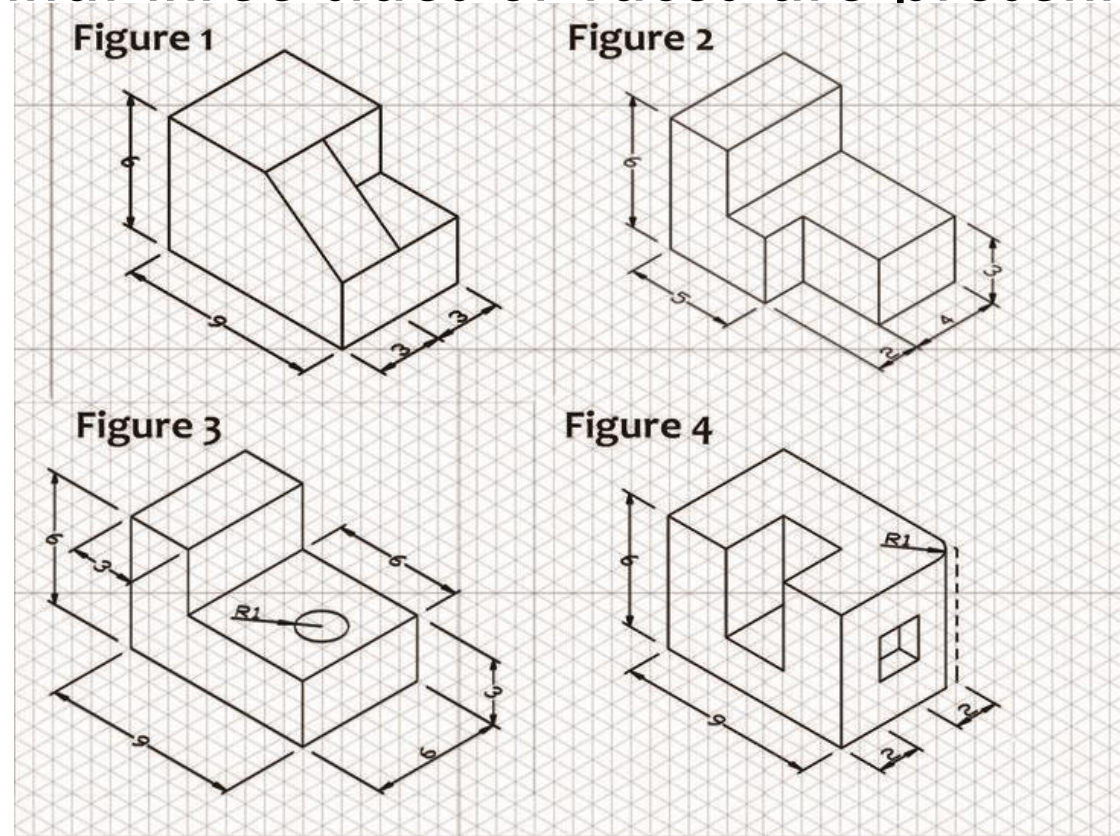
- Orthographic Projections

Isometric

3

PABLO

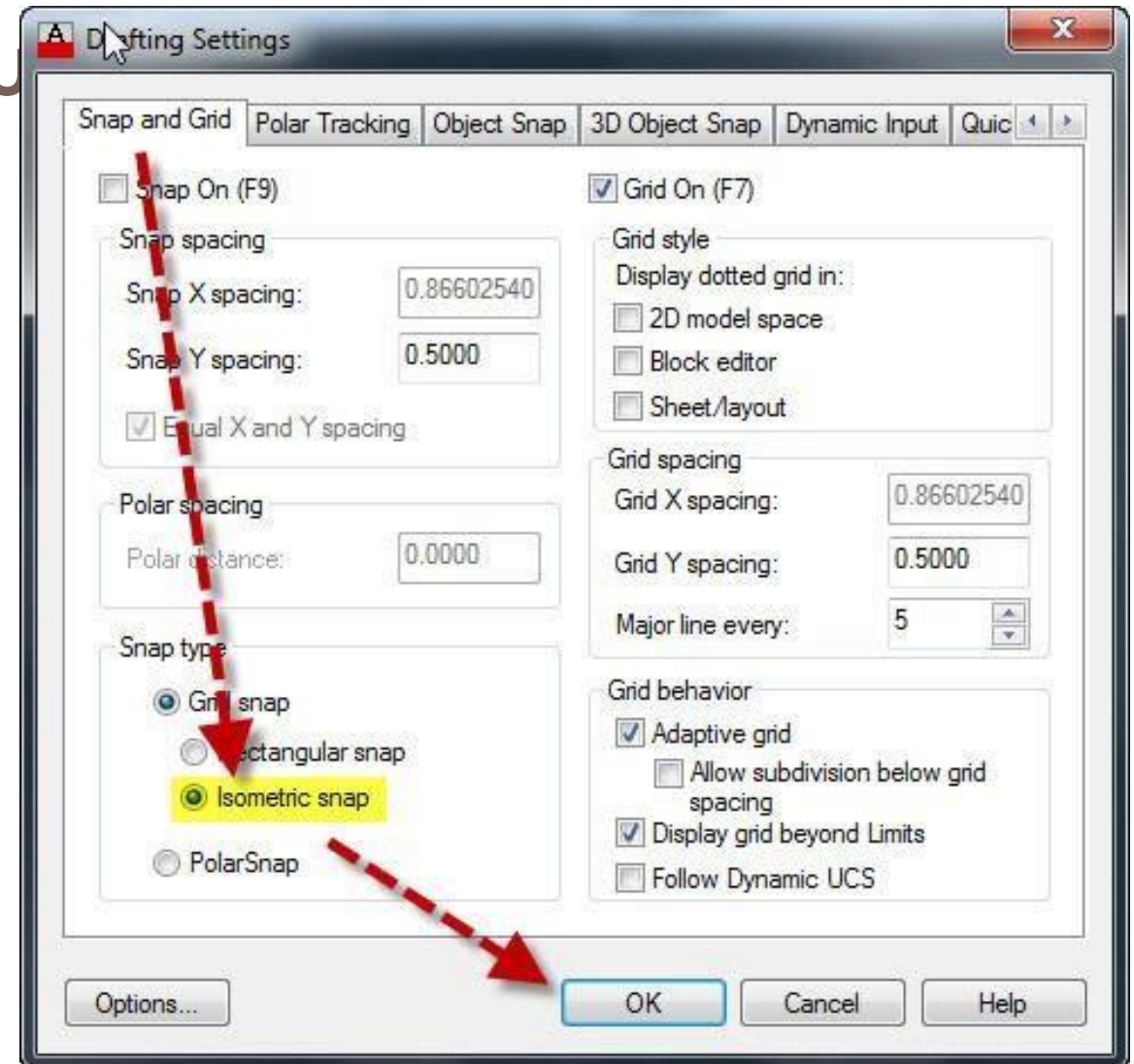
- An Isometric Drawing is that part of drawing which enables one to represent an object such that three sides or faces are presented in a



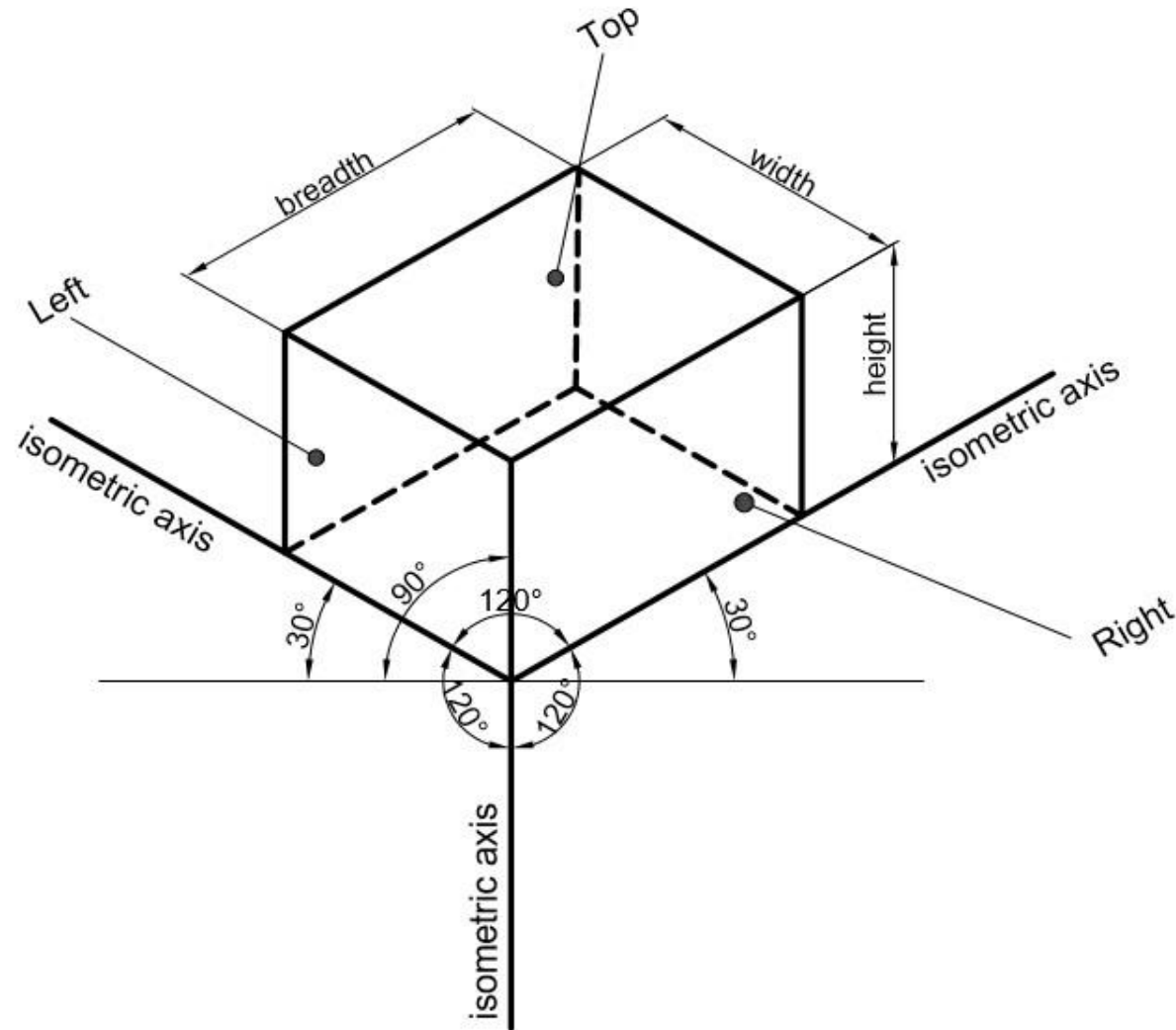
single drawing or view.

Isometric Drawings in AutoCAD

- Note: use Ctrl + E or F5 to switch between the three isoplanes to change the direction of the cursor

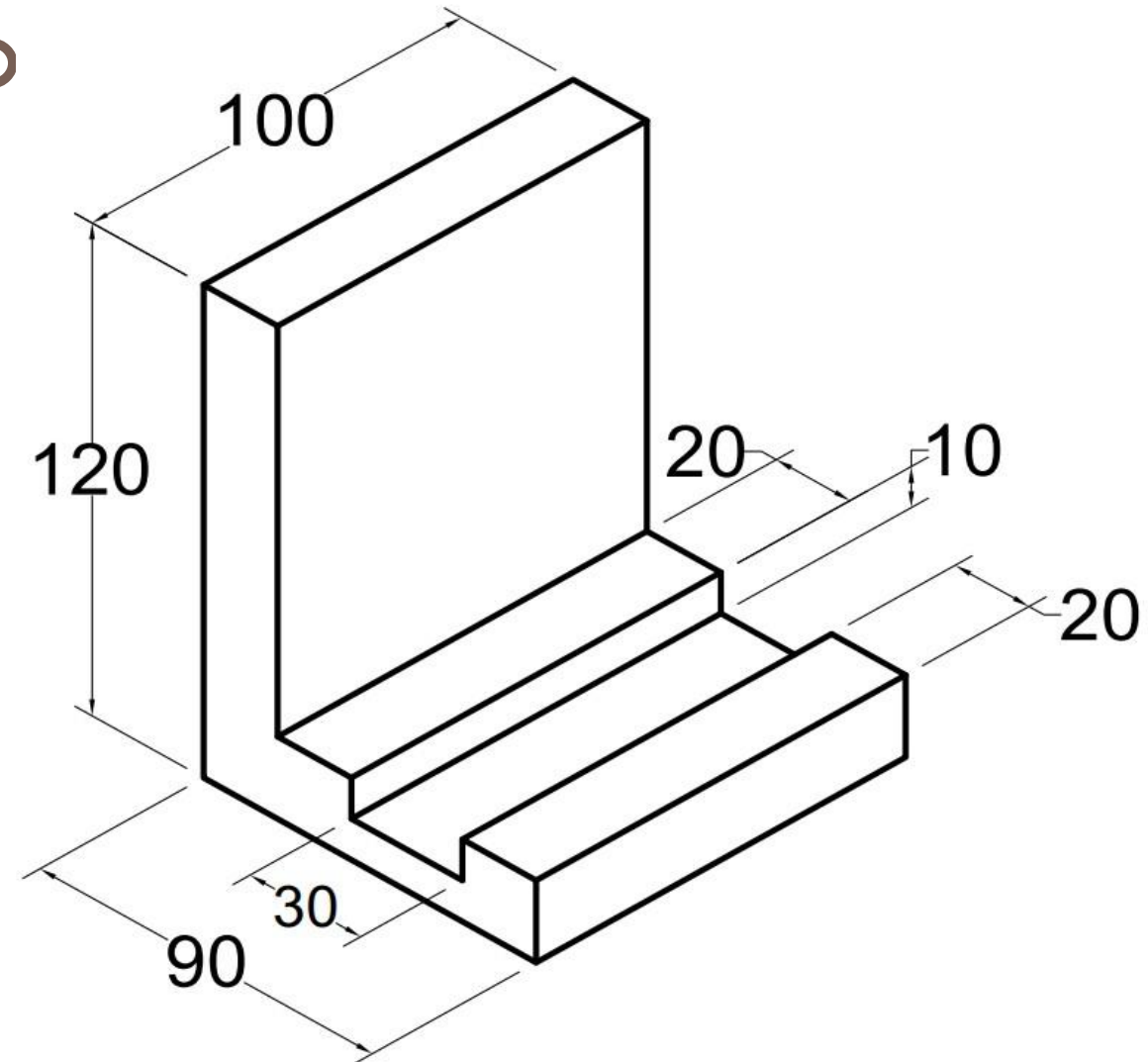
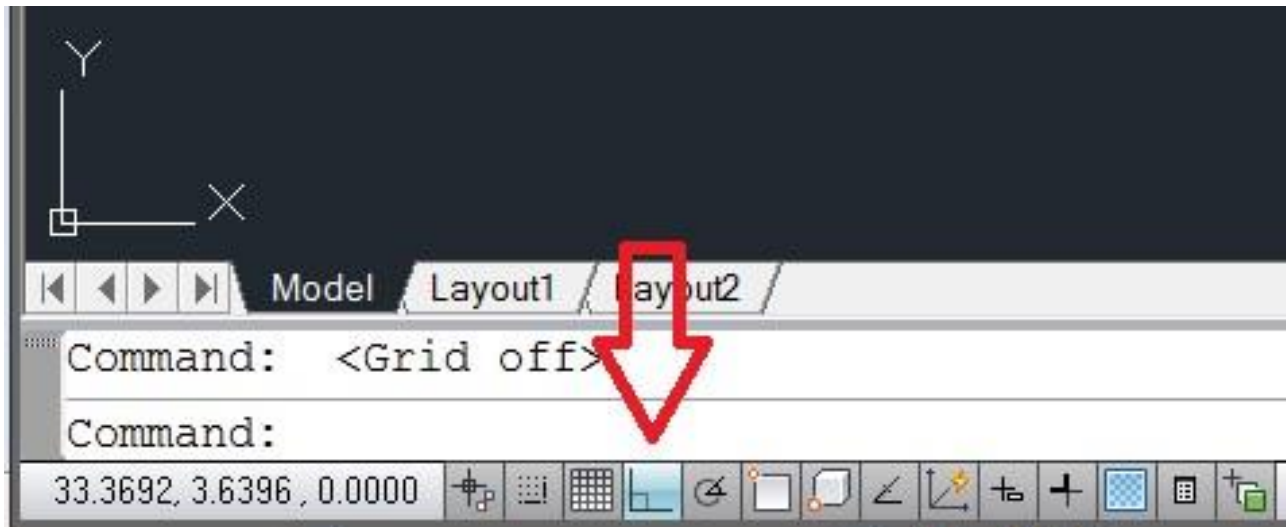


Isometric

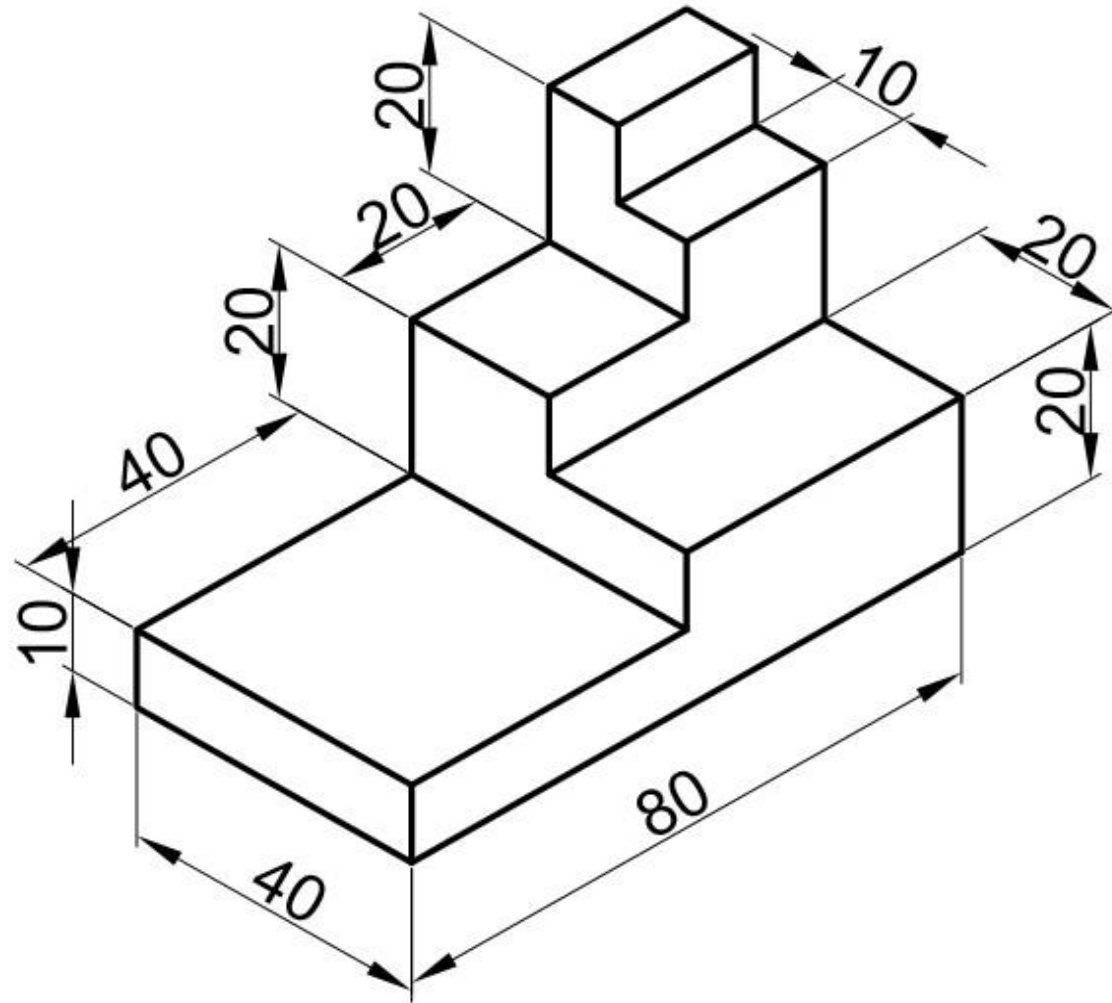


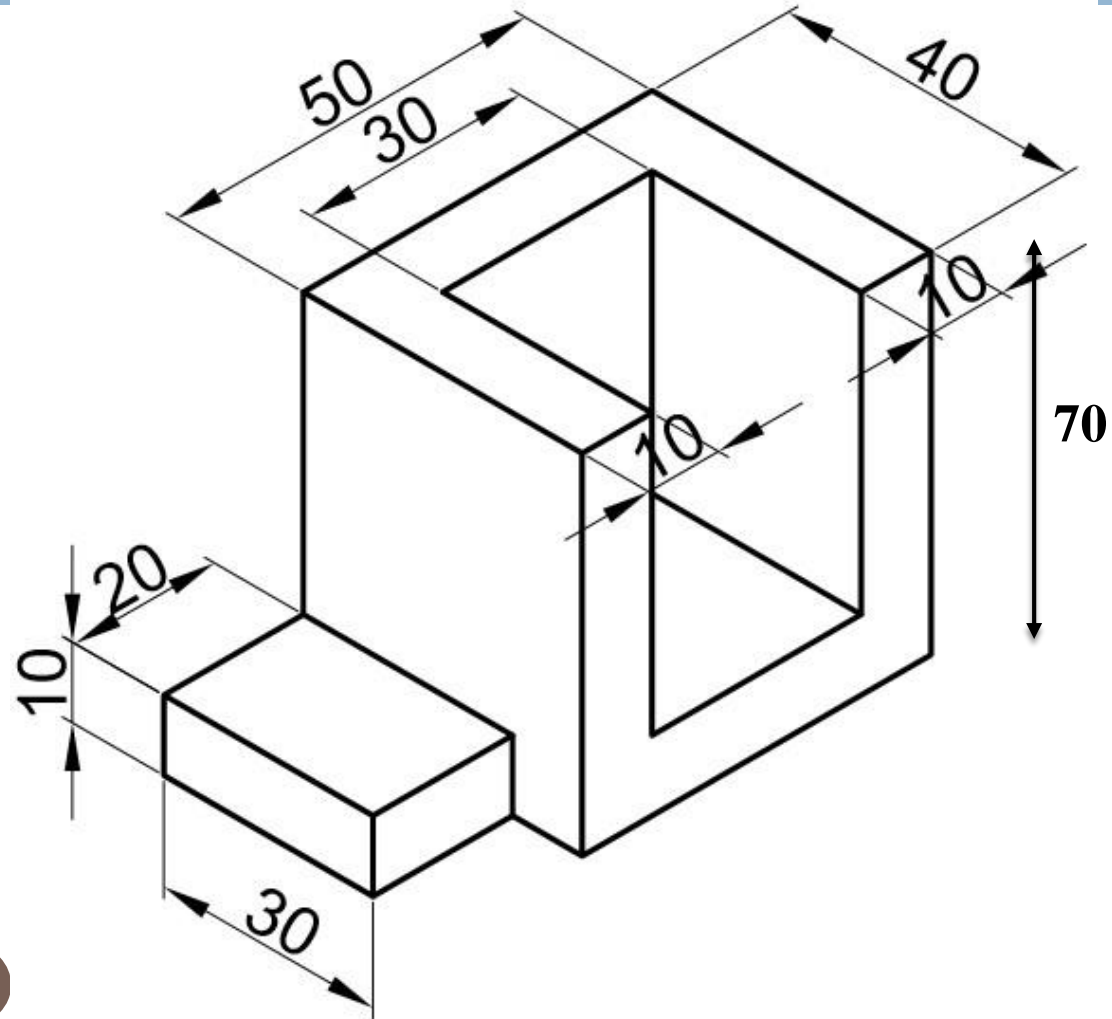
Isometric Drawings in Auto

- Make sure “ortho” is activated



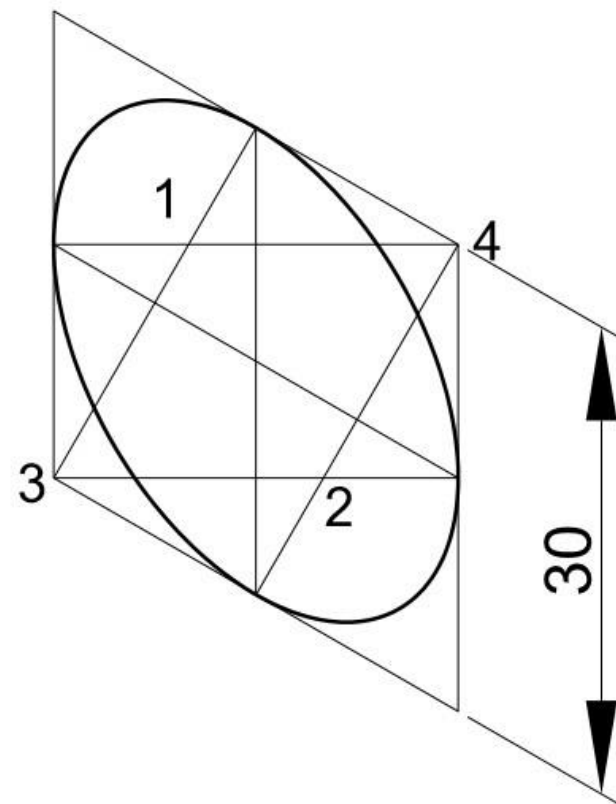
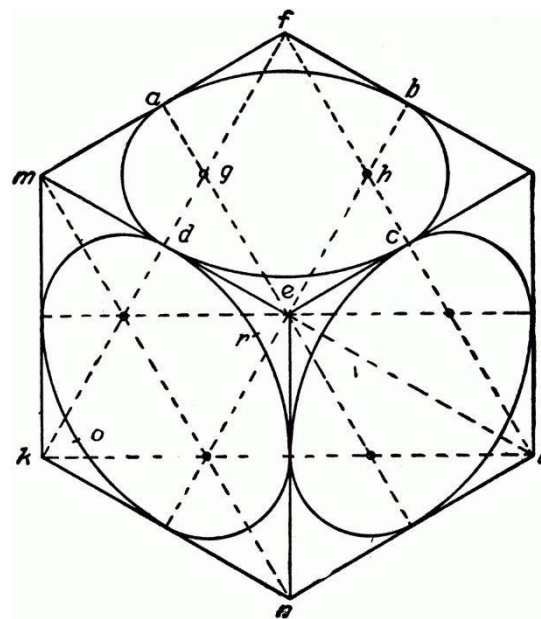
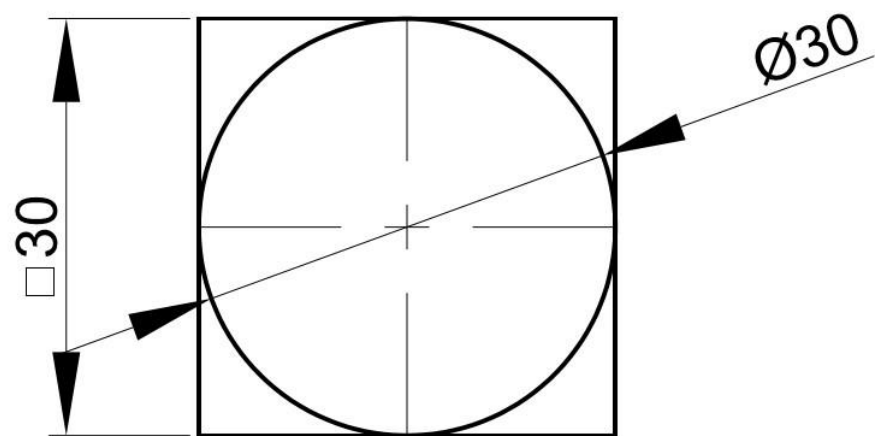
Isometric D

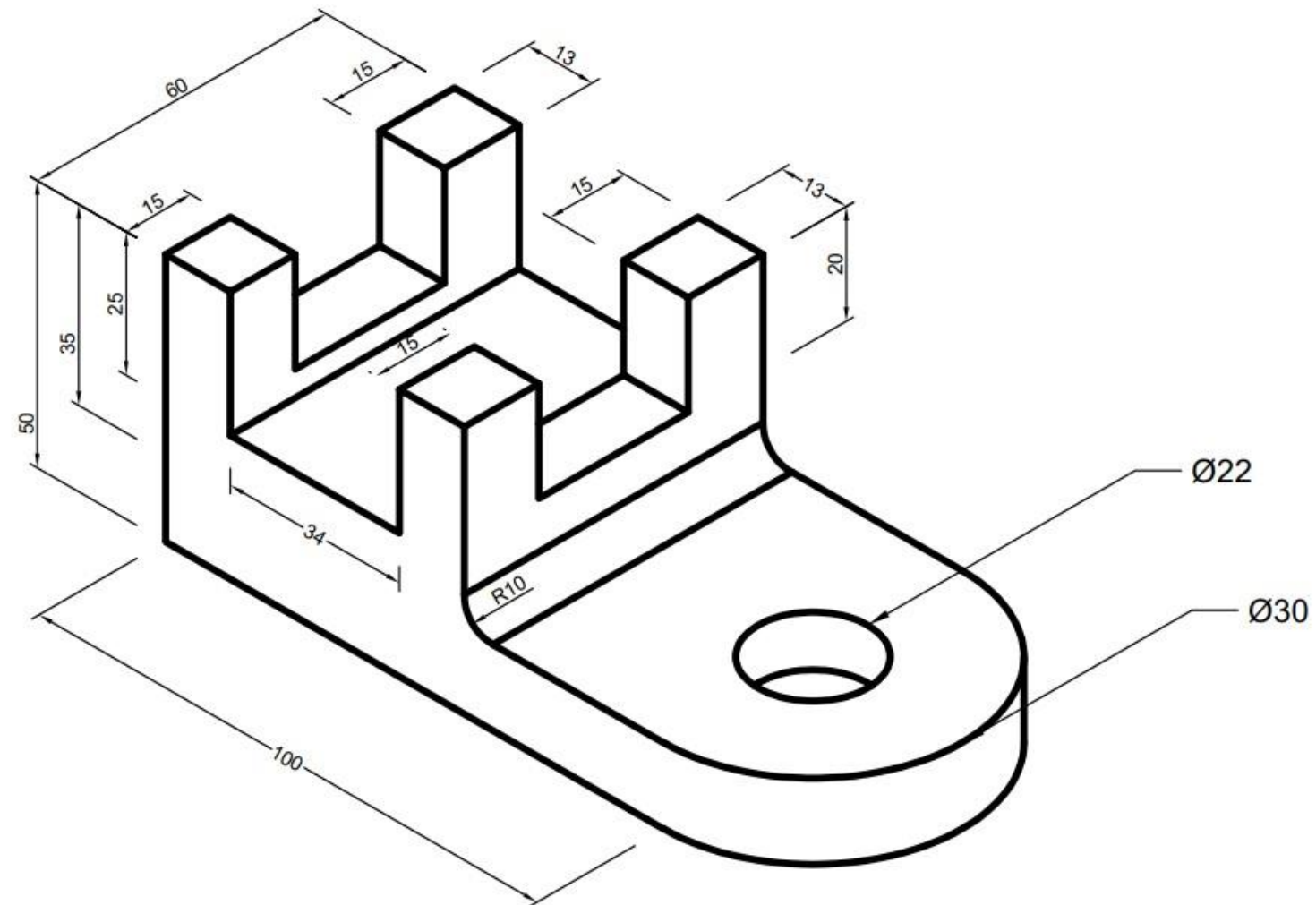




Isometric D

Circle in Isometric





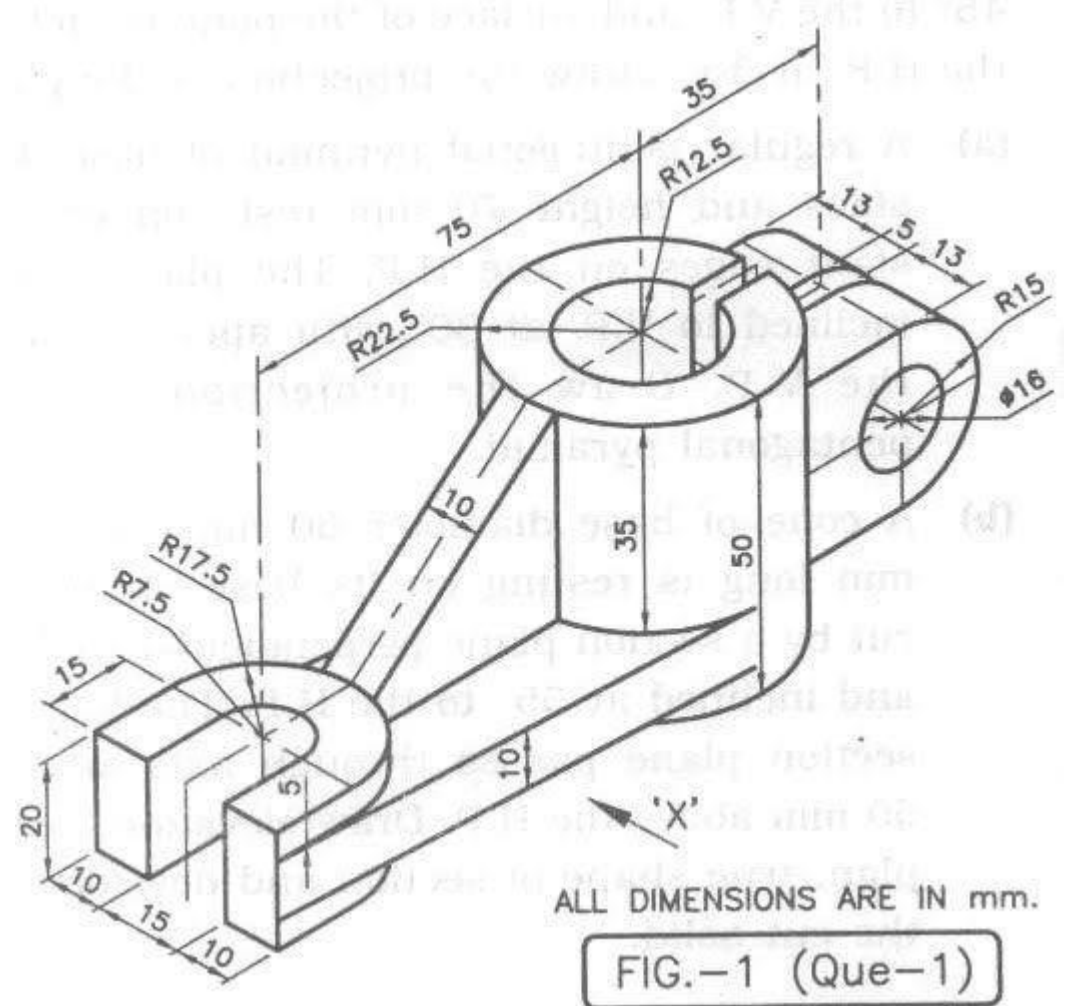
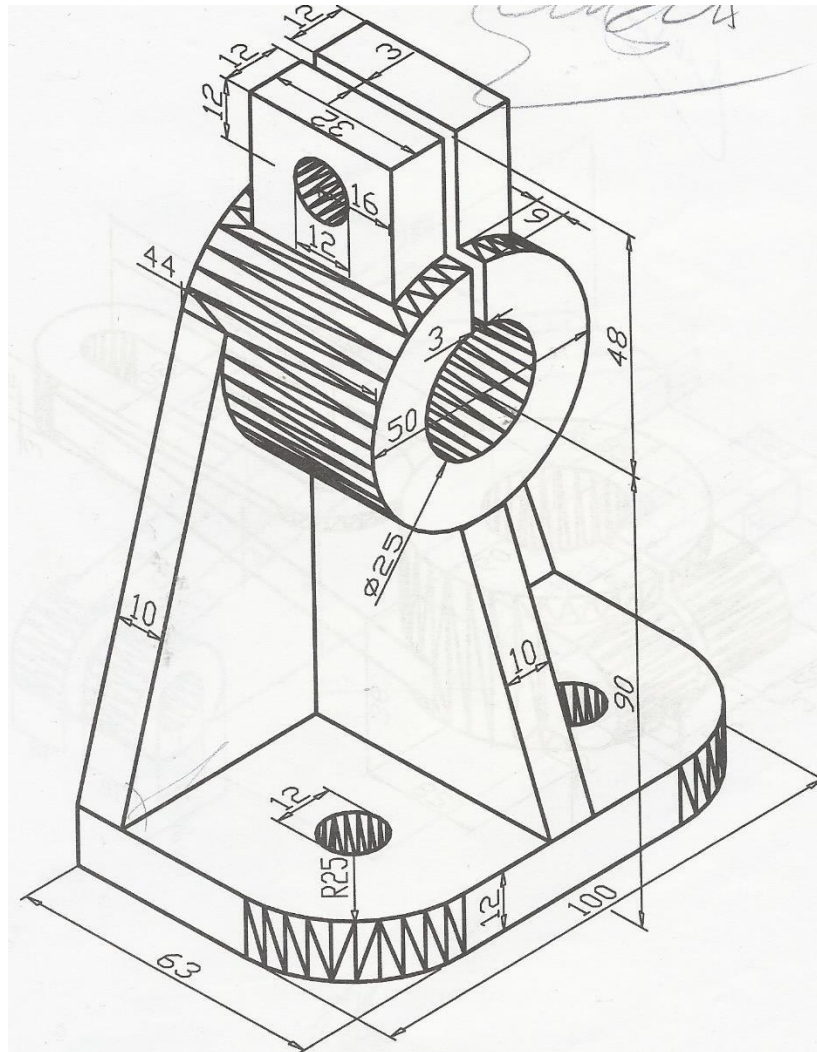
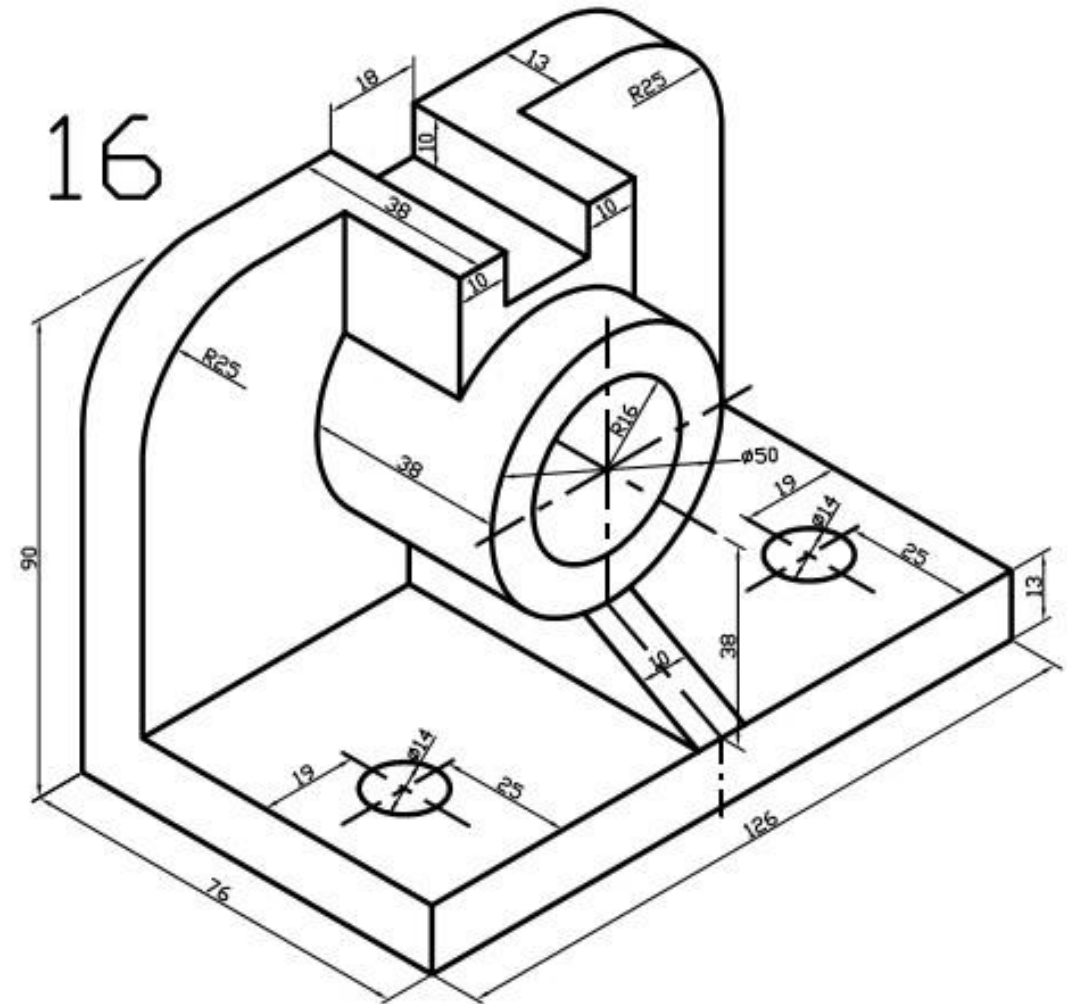


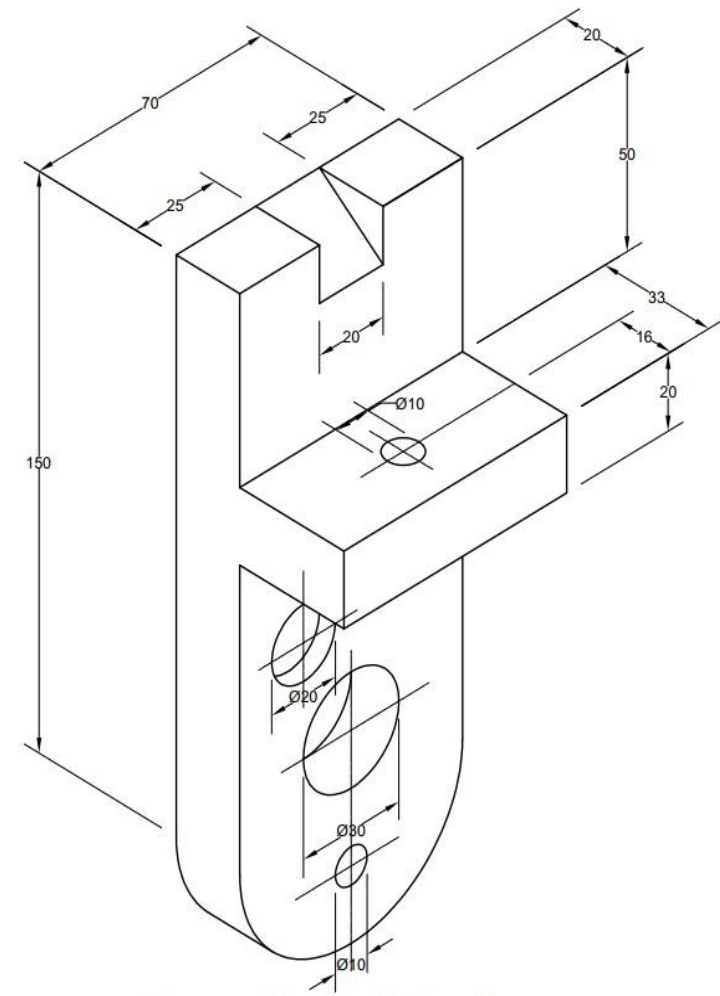
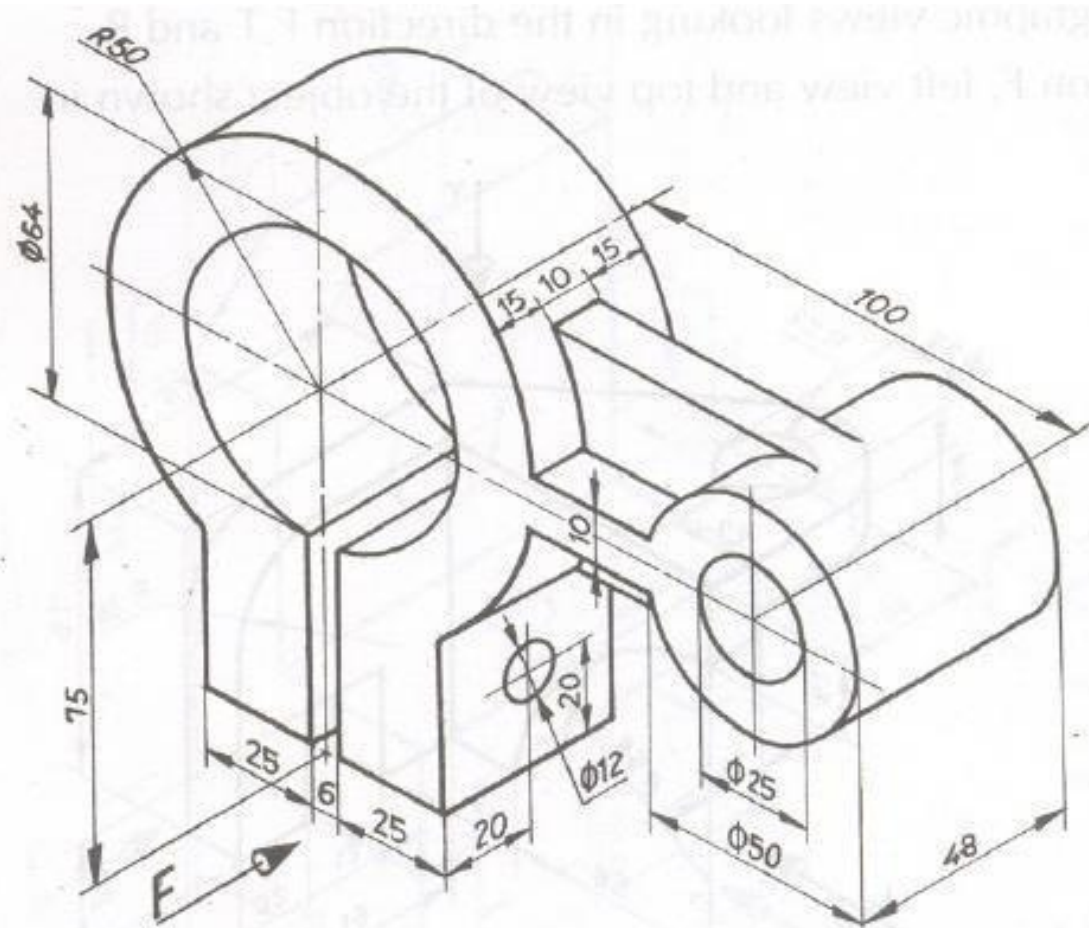
FIG.-1 (Que-1)



st Dro



S



Locating block

Orthographic Drawings

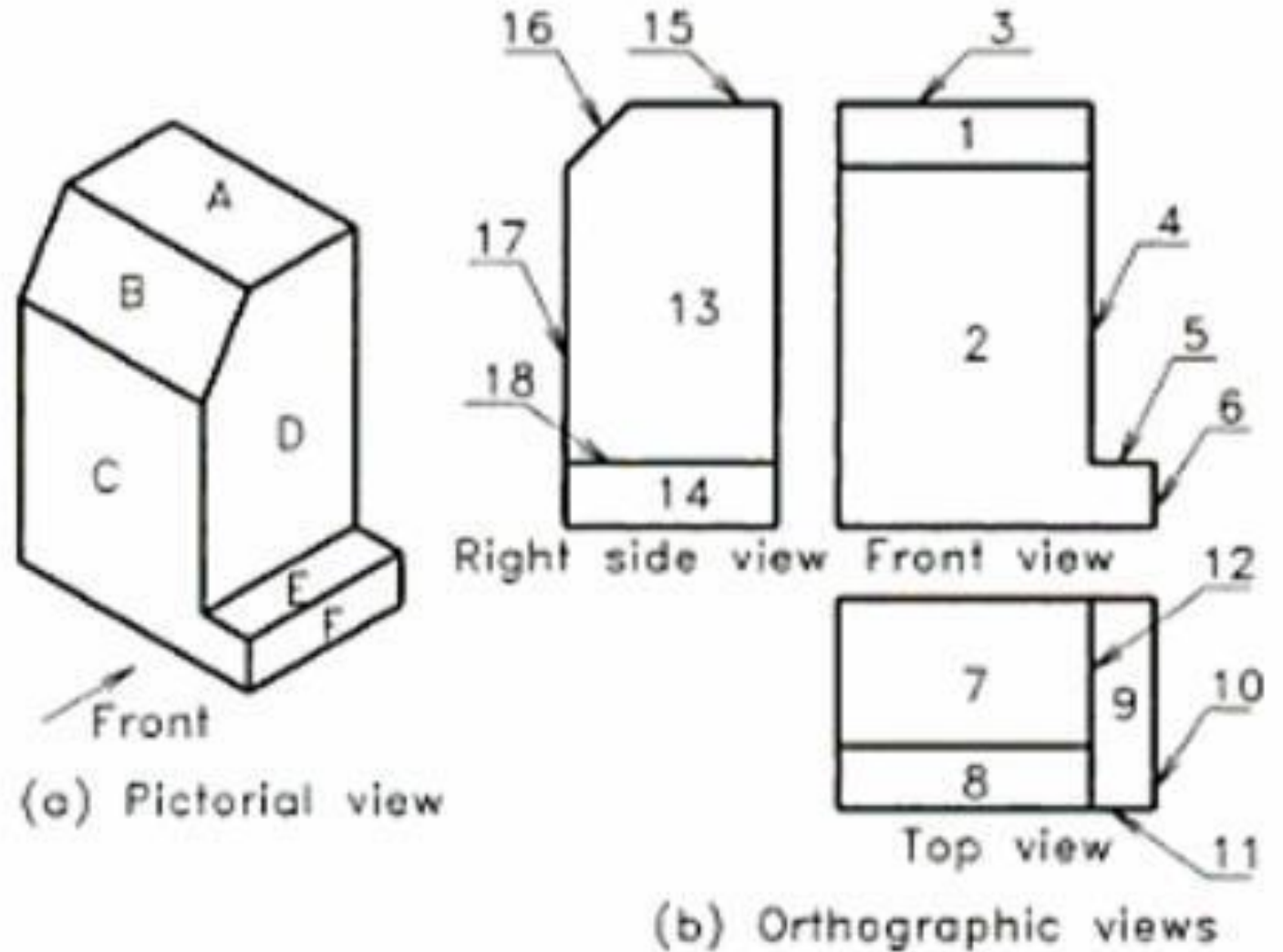
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- **Orthographic drawing** is a way of drawing a 3D object from different directions in 2D.

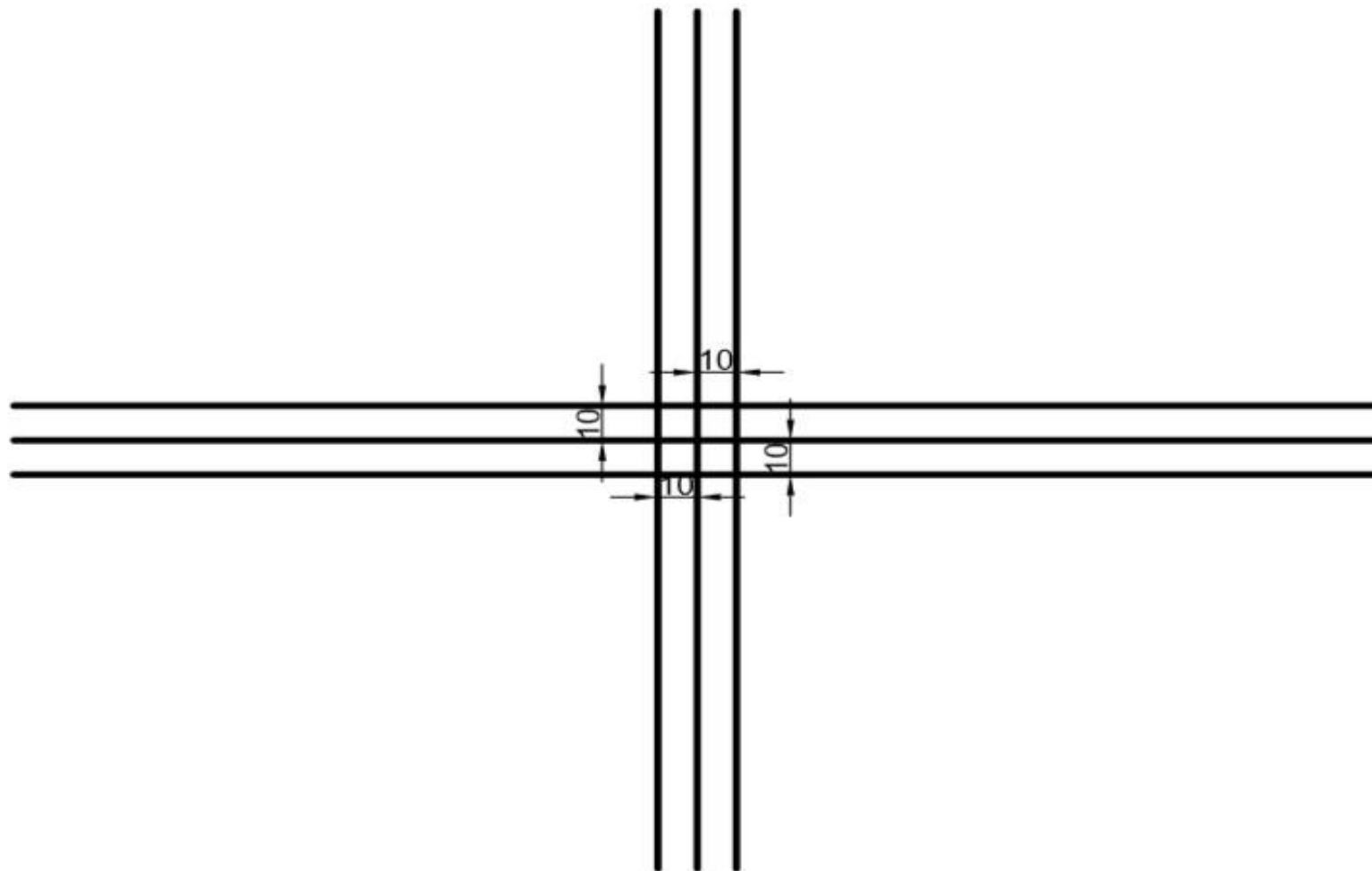
- Usually a front, side and plan views are drawn so that a person looking at the drawing can see all the important sides.

- Front View
- Side View
- Top View or Plan

Principal Parts C



How to



Types of orthographic

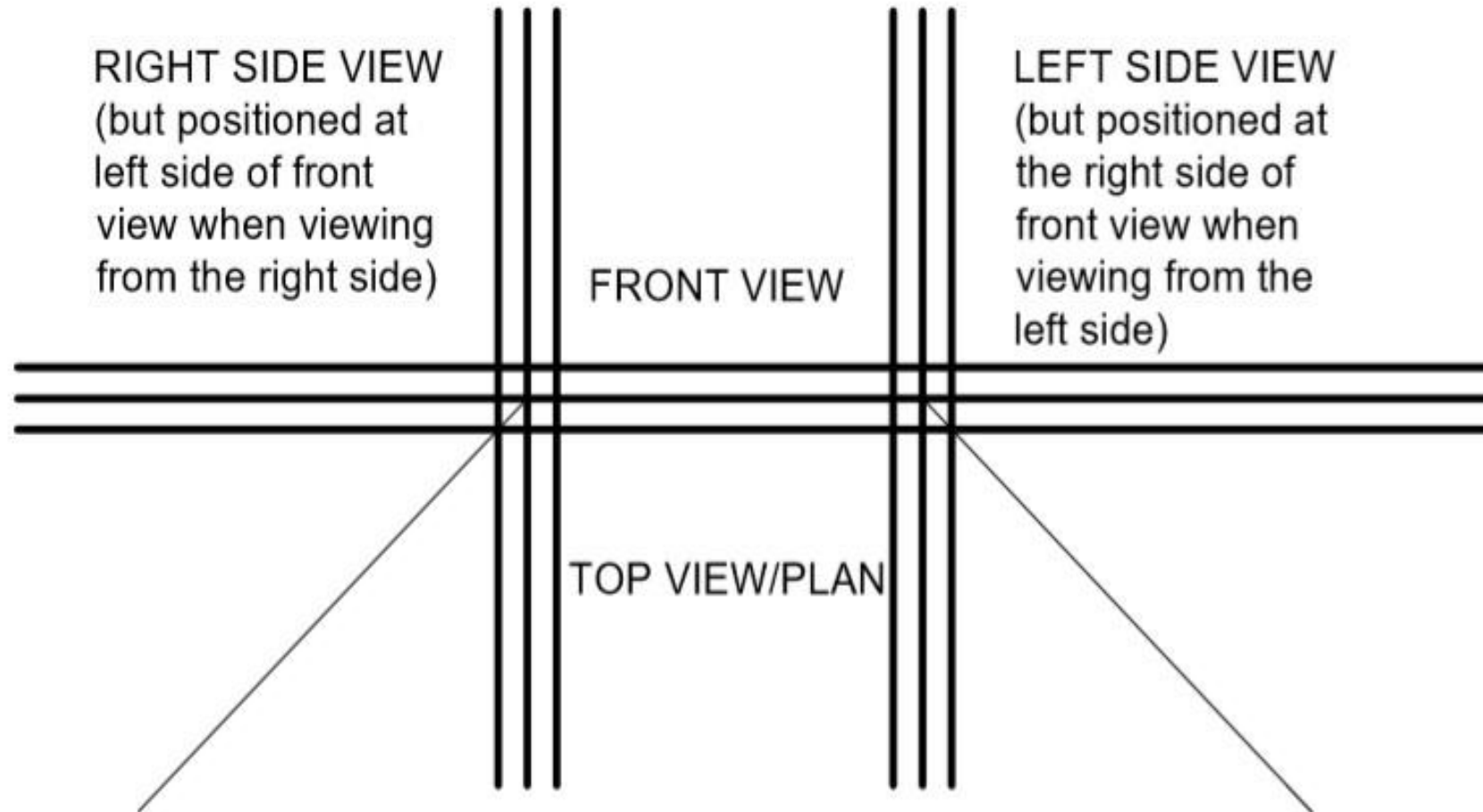
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Projections

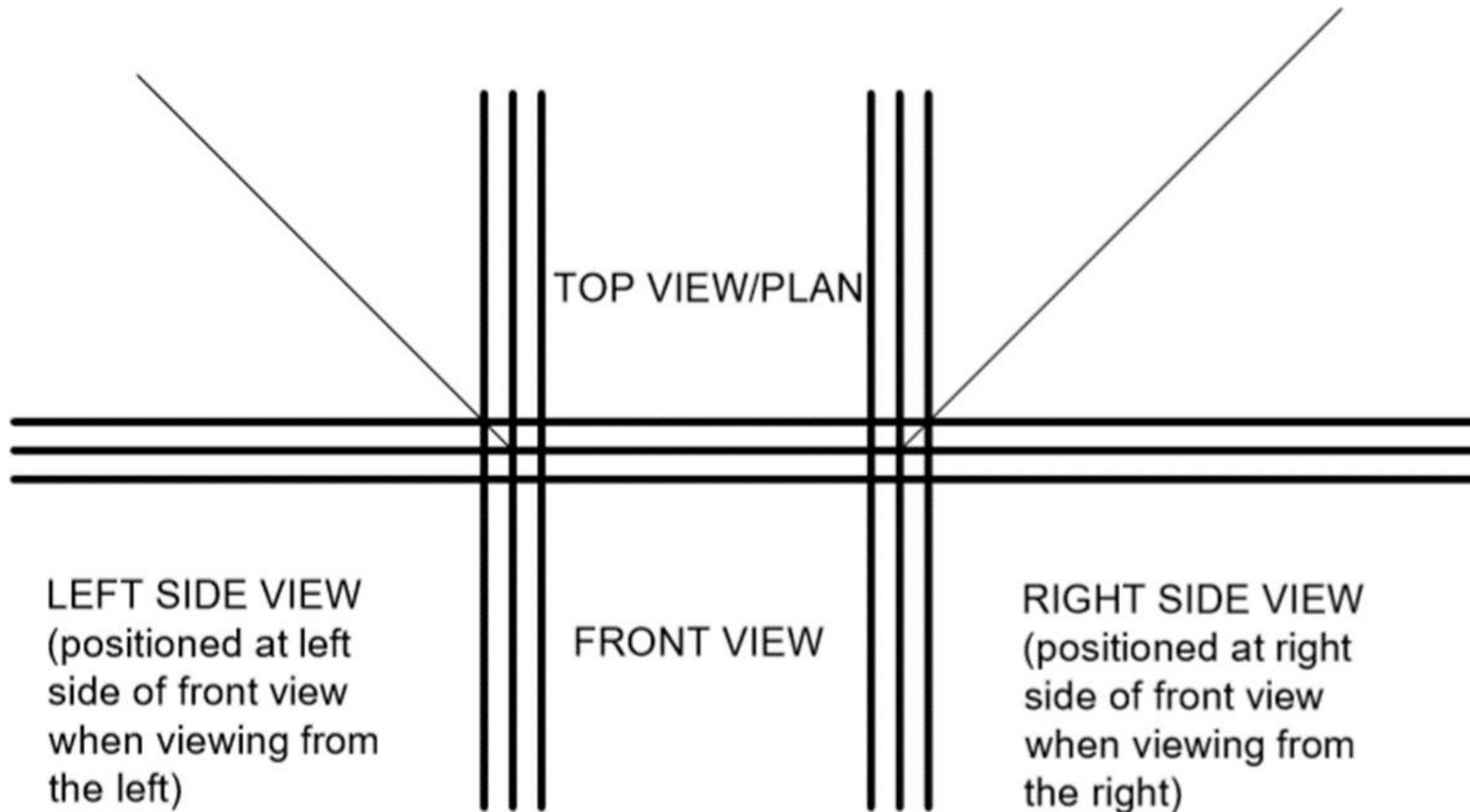
- First Angle

□ Third Angle

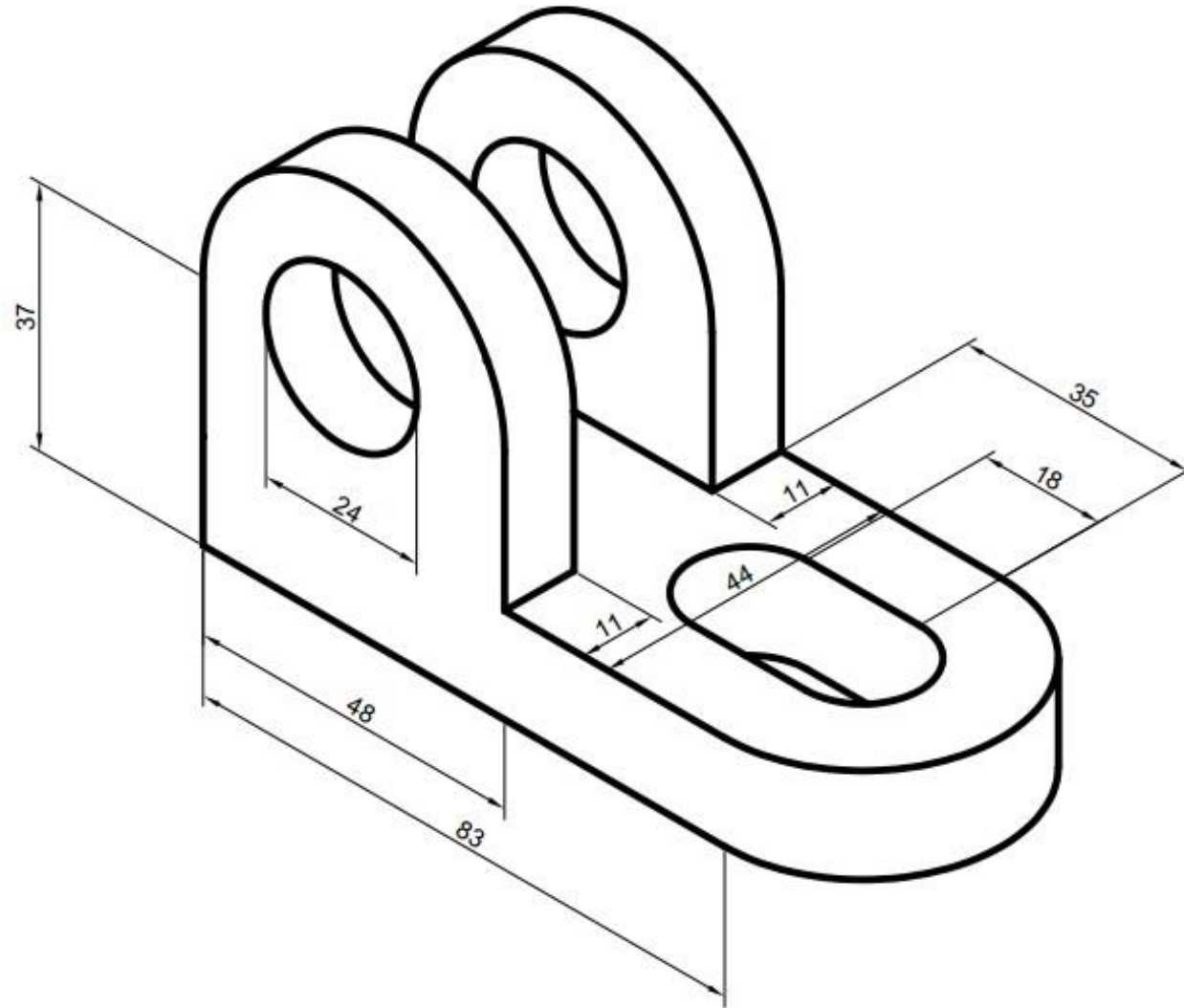
First A

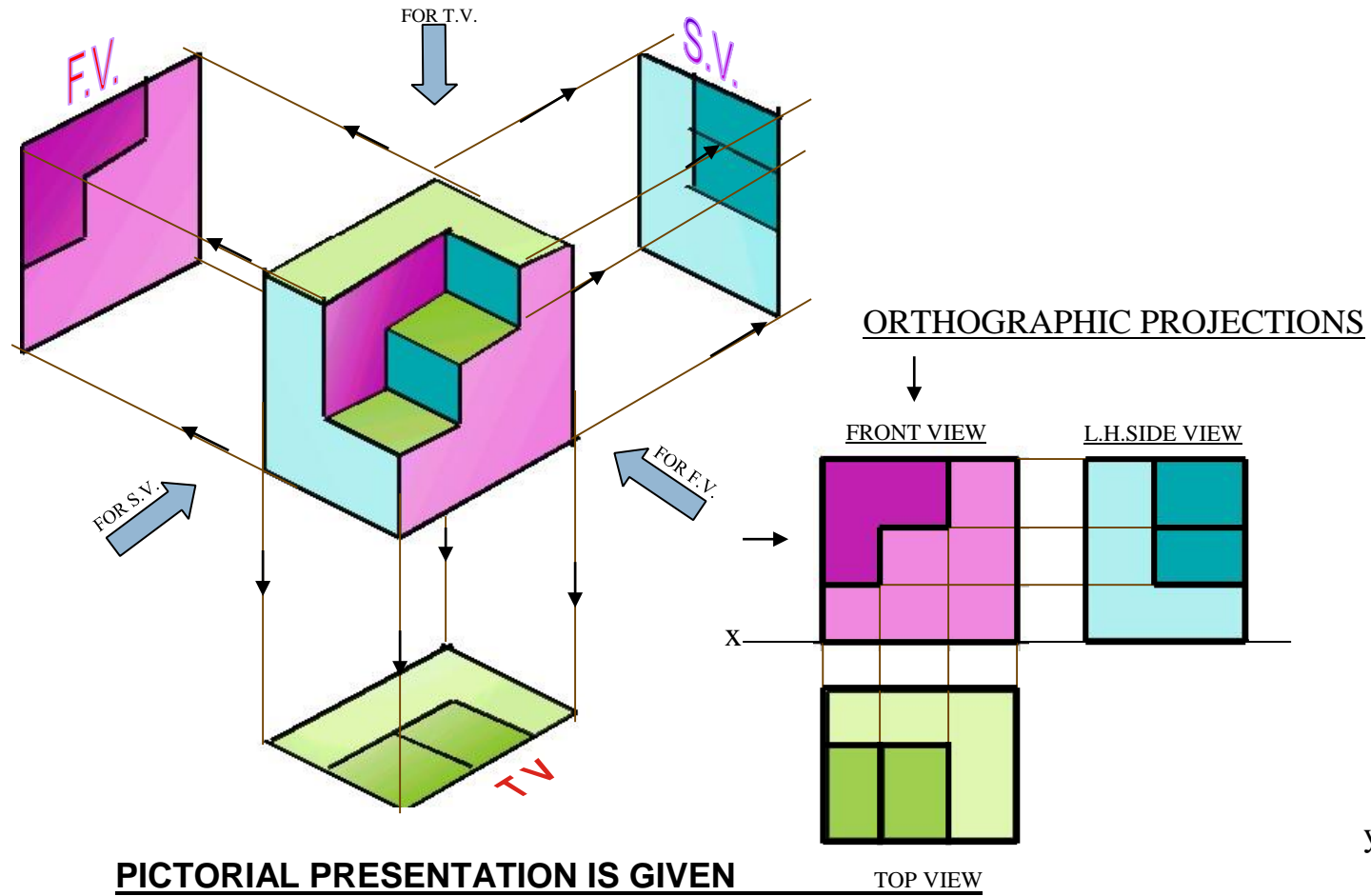


Third

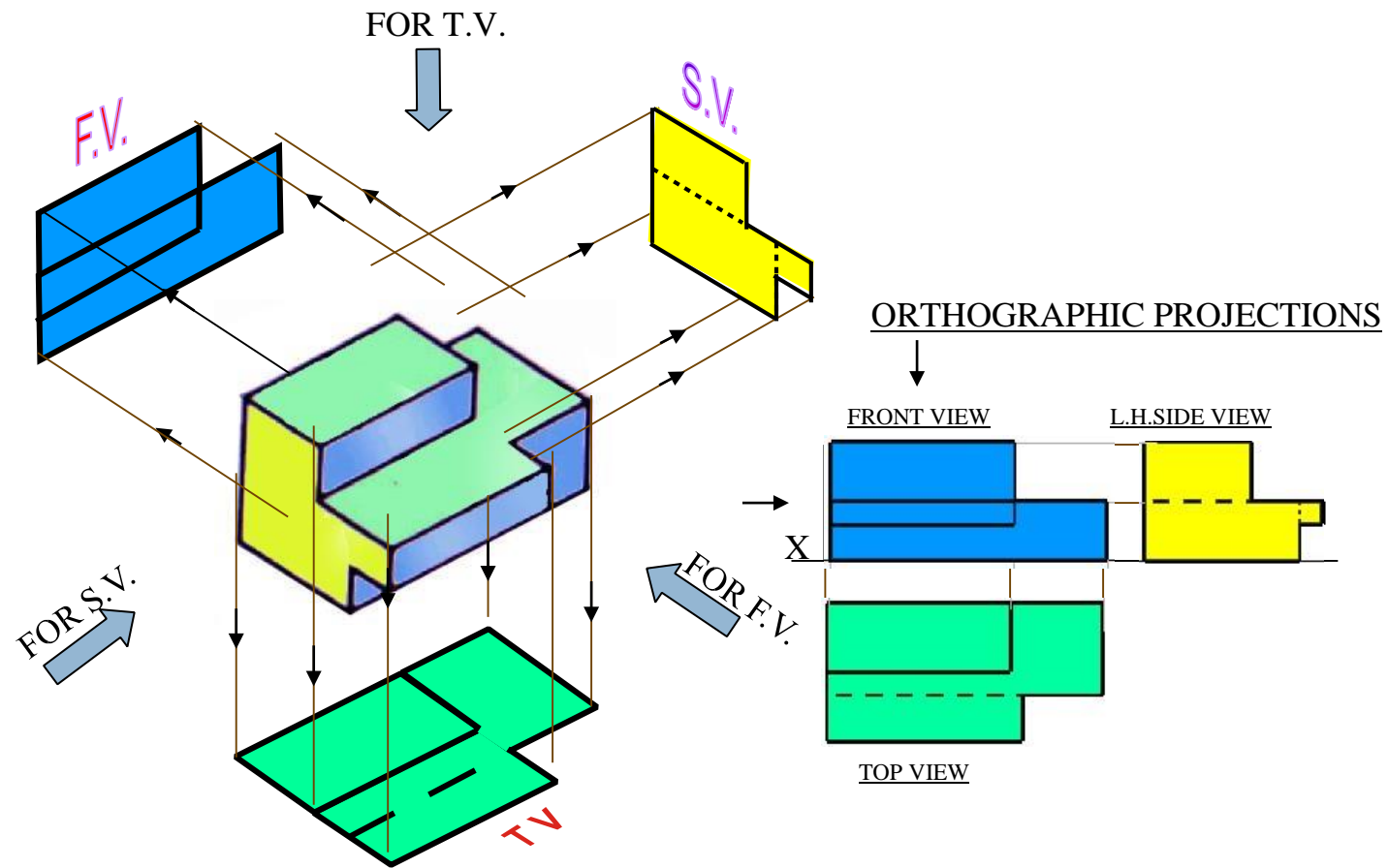


Drawing





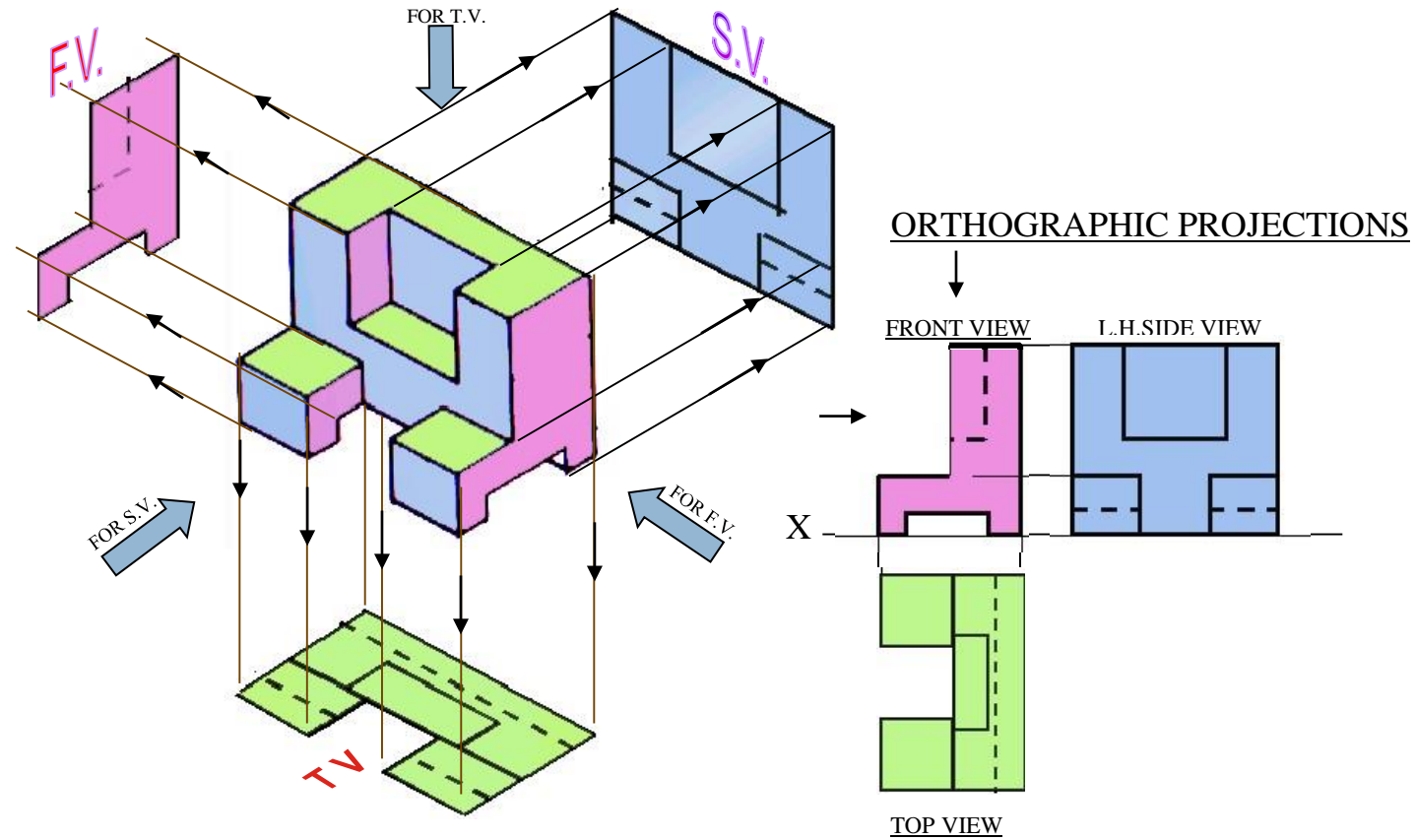
PICTORIAL PRESENTATION IS GIVEN
DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD



PICTORIAL PRESENTATION IS GIVEN
DRAW THREE VIEWS OF THIS OBJECT

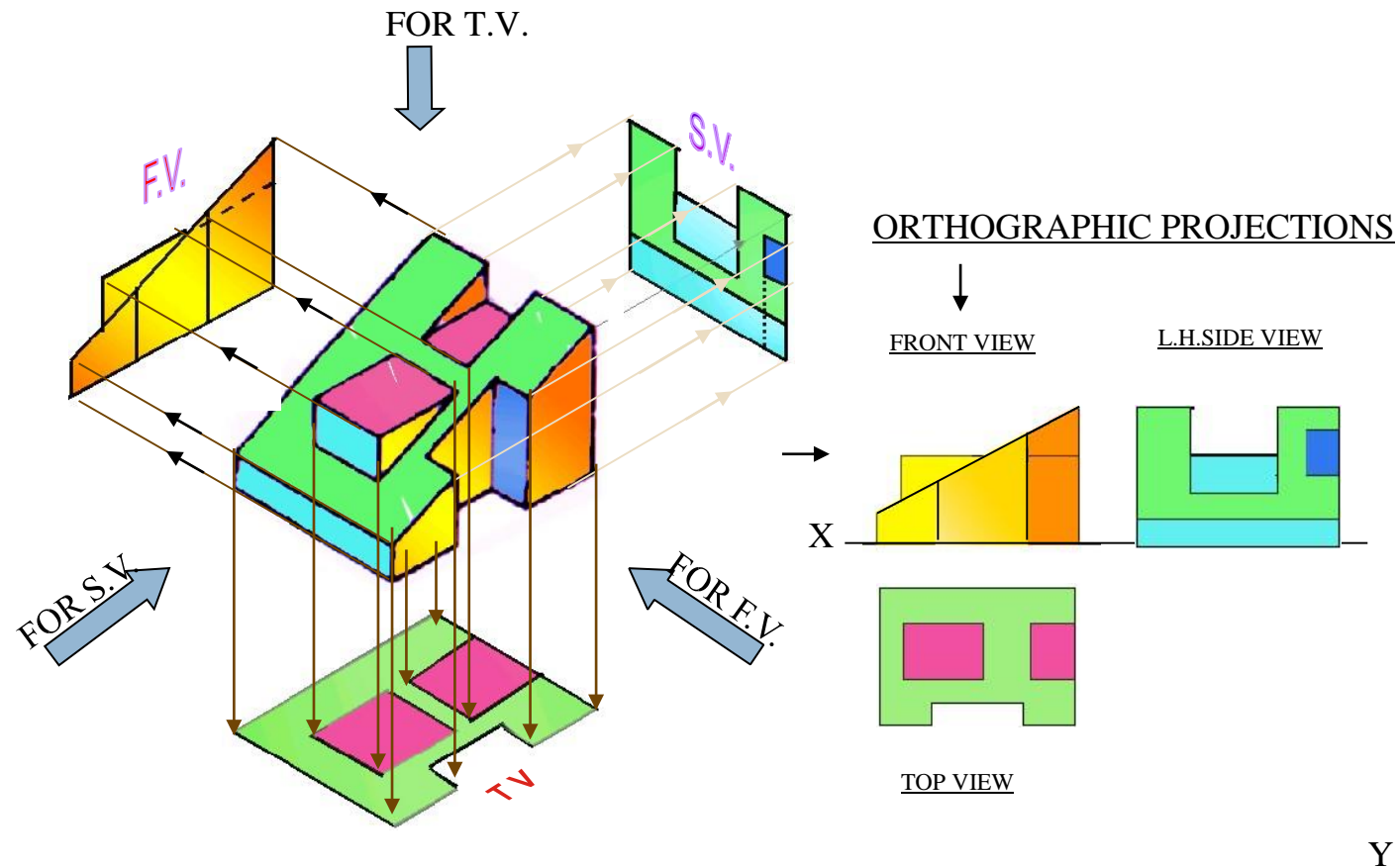
Y

BY FIRST ANGLE PROJECTION METHOD



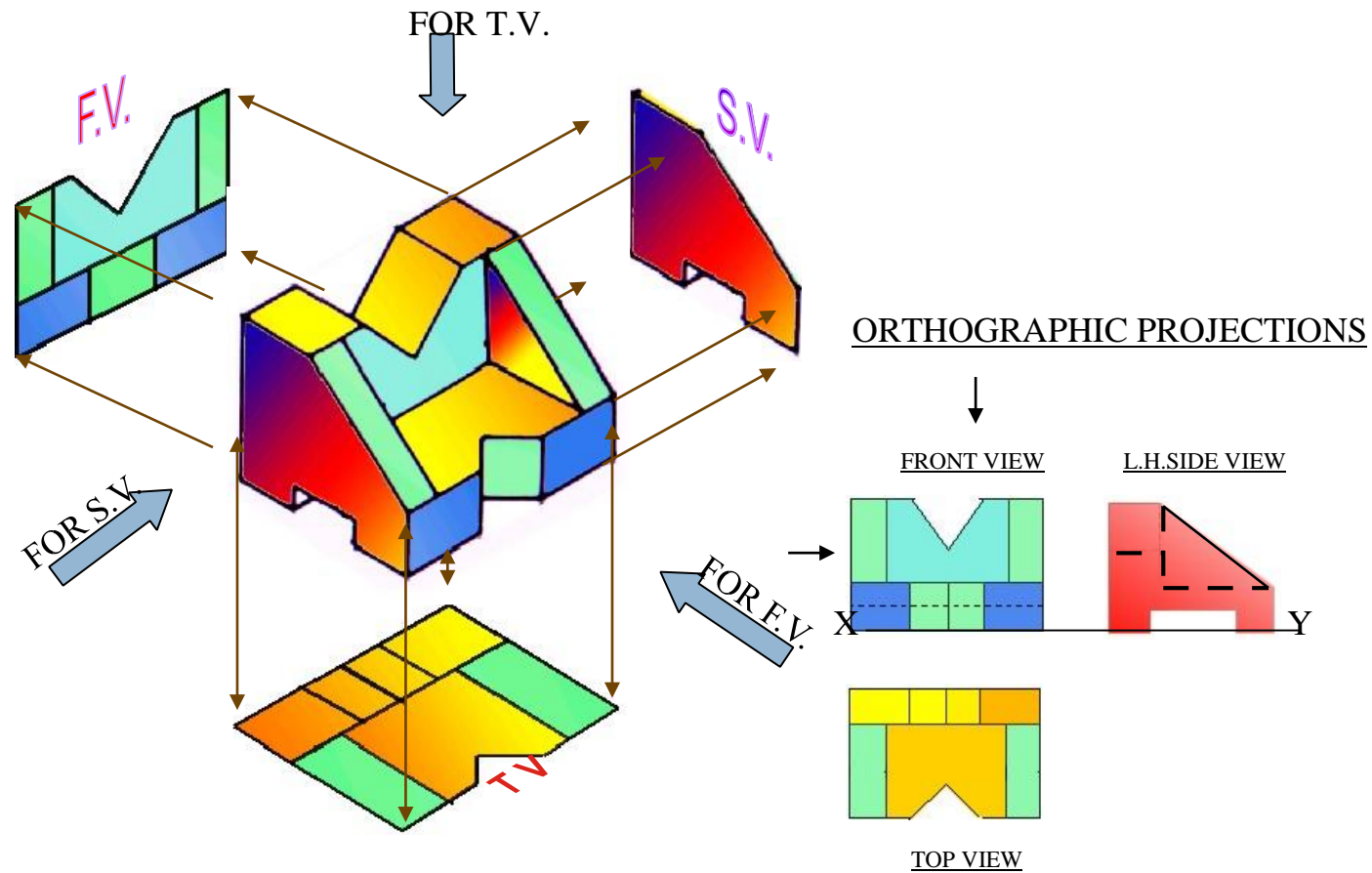
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DRAW THREE VIEWS OF THIS OBJECT

BY FIRST ANGLE PROJECTION METHOD



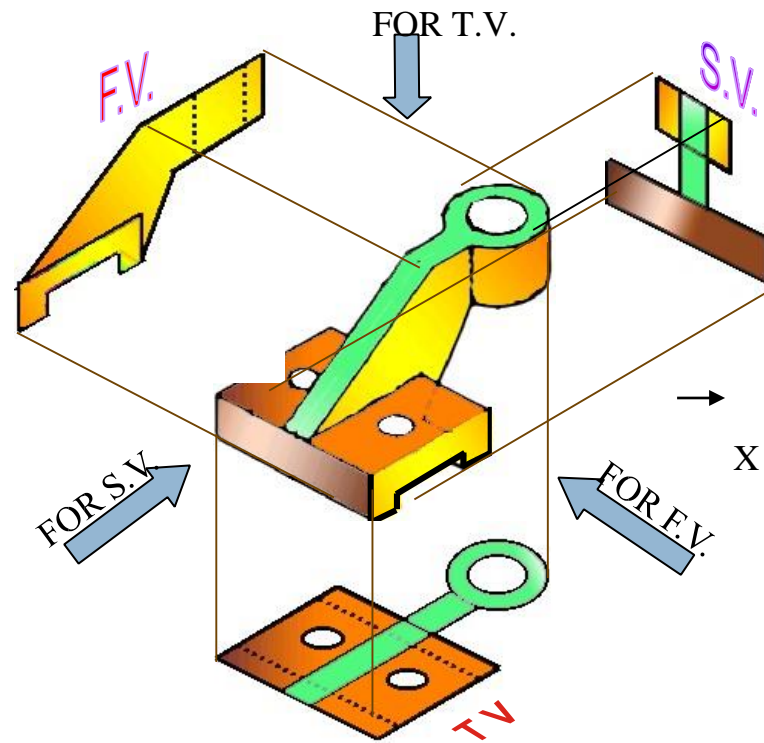
PICTORIAL PRESENTATION IS GIVEN
DRAW THREE VIEWS OF THIS OBJECT

BY FIRST ANGLE PROJECTION METHOD

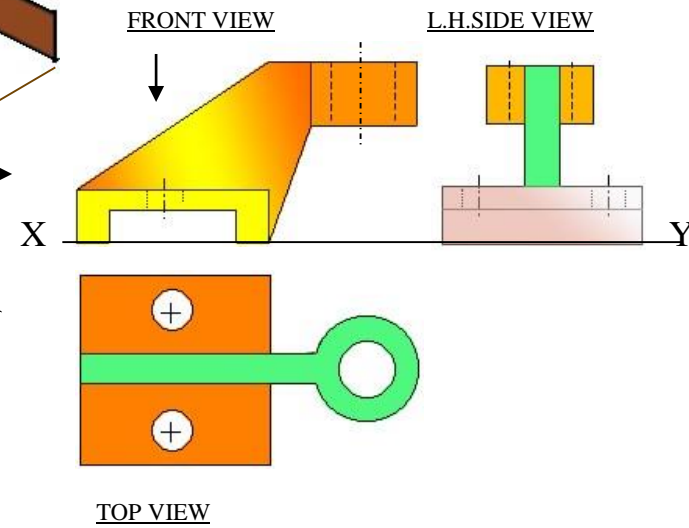


PICTORIAL PRESENTATION IS GIVEN
DRAW THREE VIEWS OF THIS OBJECT

BY FIRST ANGLE PROJECTION METHOD

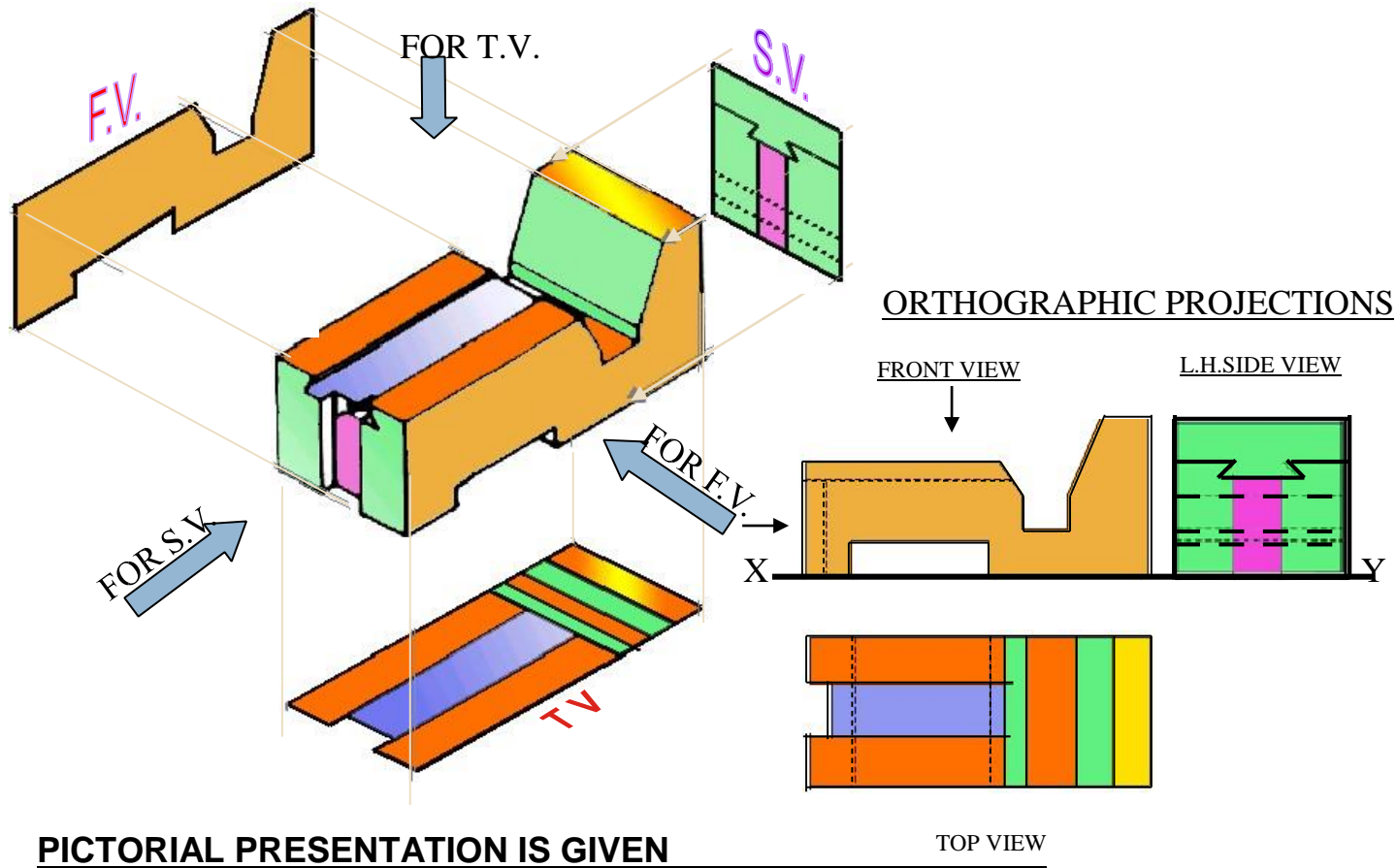


ORTHOGRAPHIC PROJECTIONS

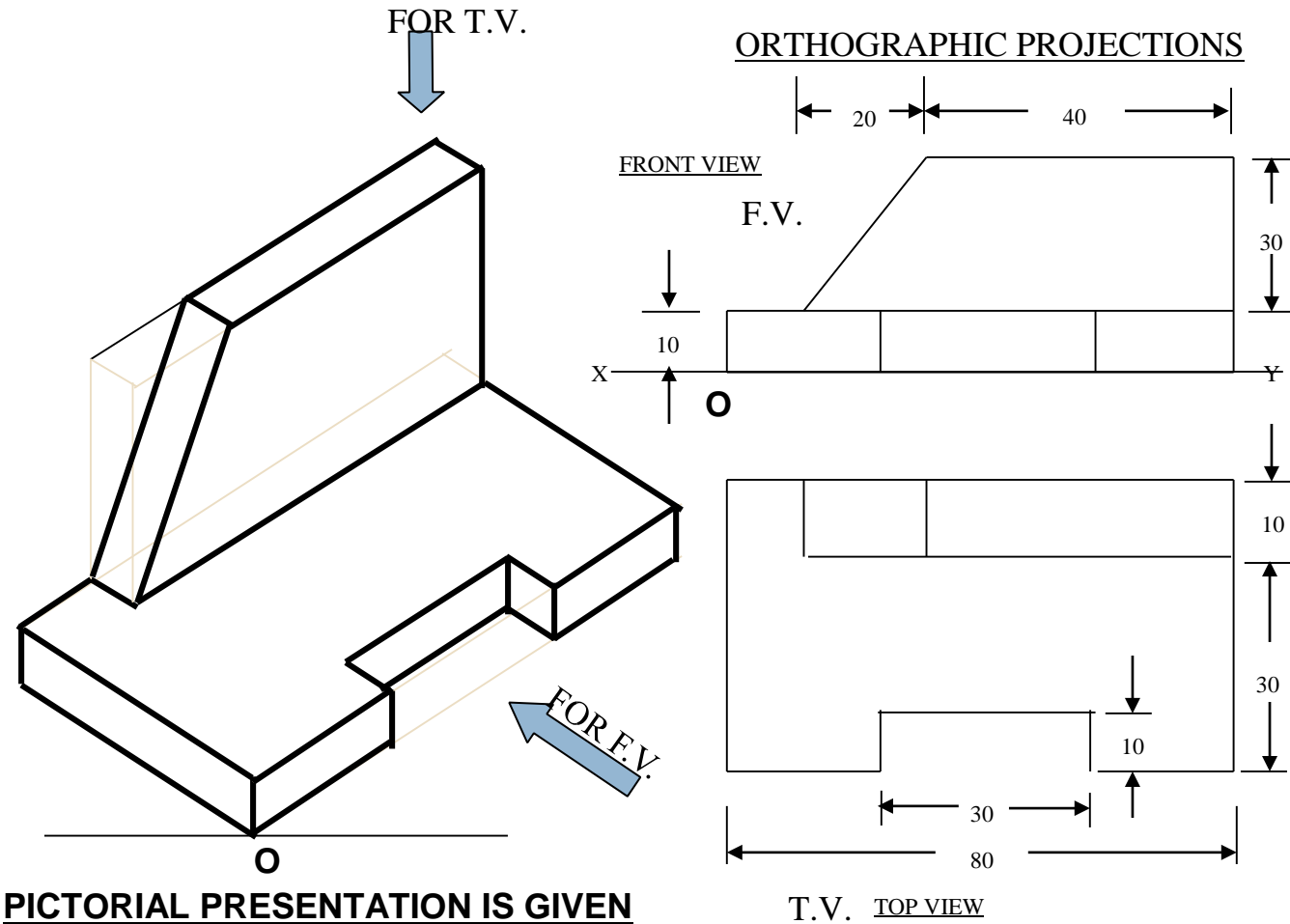


PICTORIAL PRESENTATION IS GIVEN

DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD



**DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD**

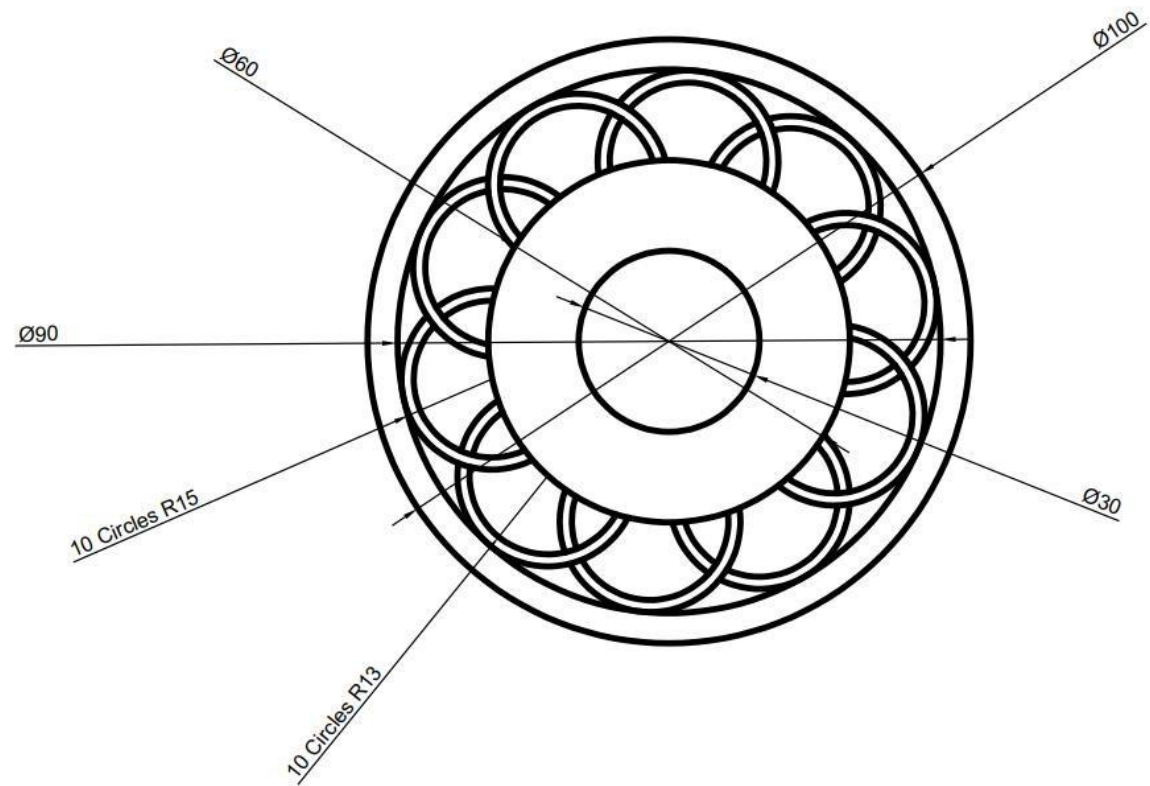
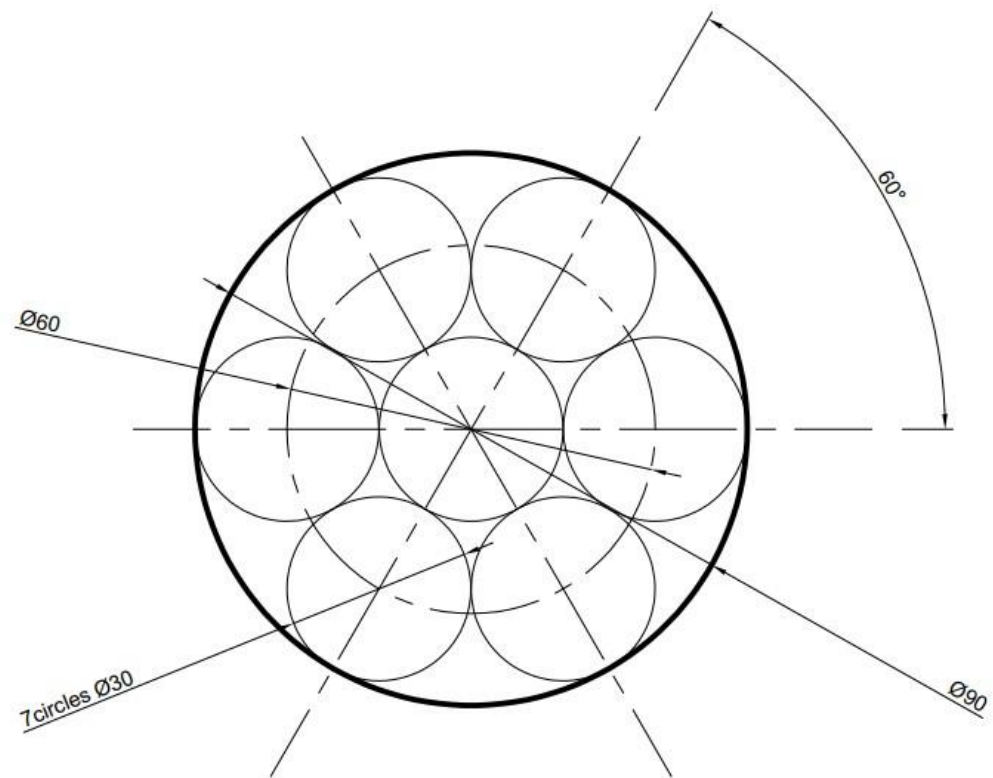


PICTORIAL PRESENTATION IS GIVEN
DRAW FV AND TV OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD

Exercise

Modifying Commands

Array





Question