



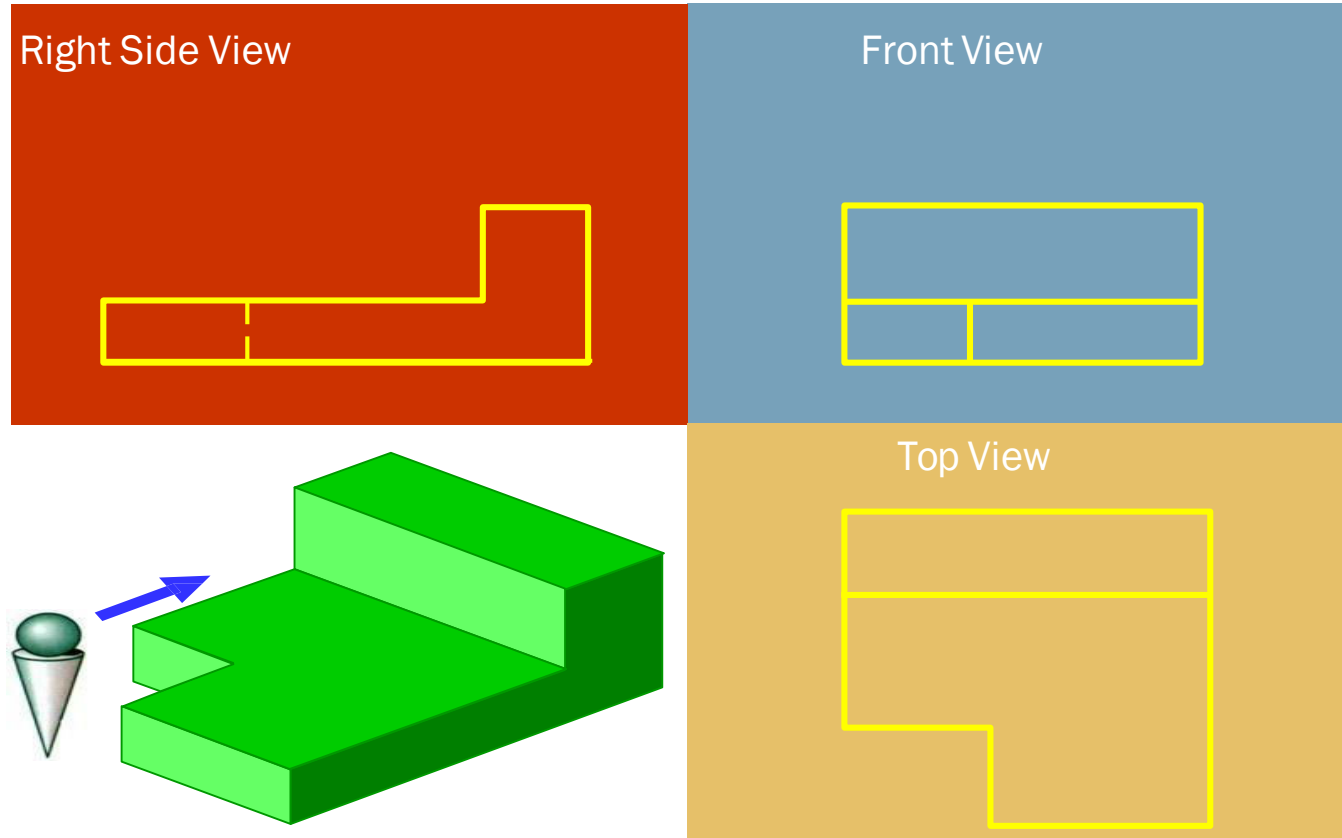
ORTHOGRAPHIC
PROJECTIONS

Orthographic Projections

- Orthographic Projections is a technical drawing in which different views of an object are projected on different reference planes observing perpendicular to respective reference plane.
- Different Reference planes are;
 - *Horizontal Plane (HP)*
 - *Vertical Plane (VP)*
 - *Side or Profile Plane (PP)*
- Different views are;
 - *Front View (FV) – Projected on VP*
 - *Top View (TV) – Projected on HP*
 - *Side View (SV) – Projected on PP*

Views arrangement

1st angle system



Example-1

Steps to draw projections

- Identify surfaces perpendicular or inclined to the view
- Surfaces parallel to the view would not be visible in that view.
- First draw horizontal and vertical reference planes (easily identifiable on drawing)
- Start drawing from the reference planes.

Draw the orthographic projections of Fig. 1

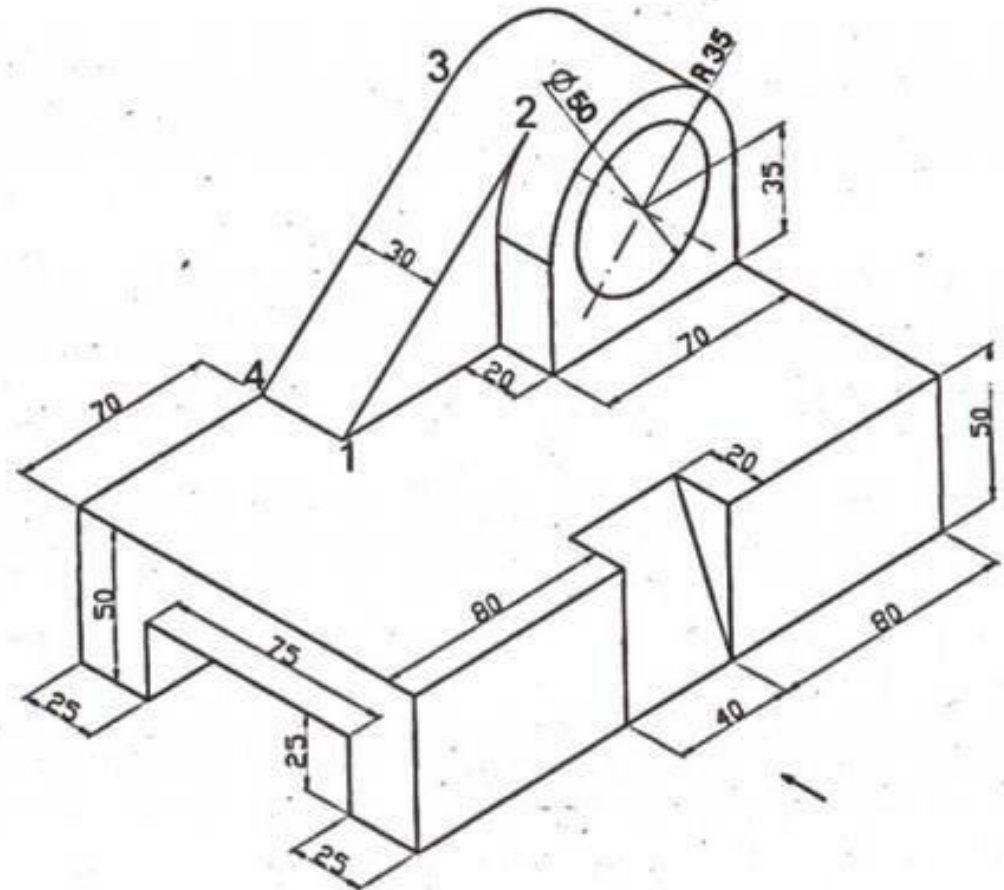
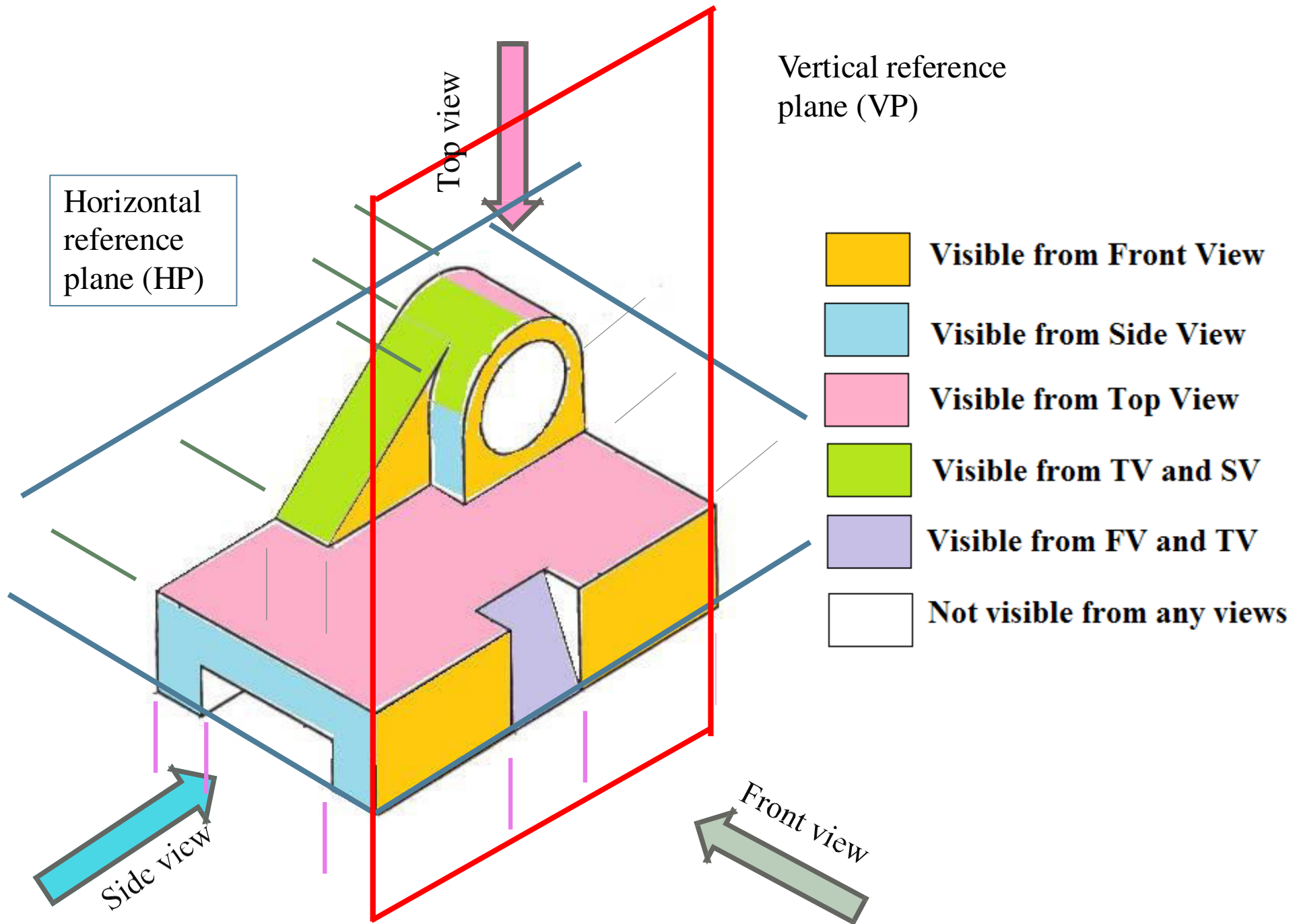
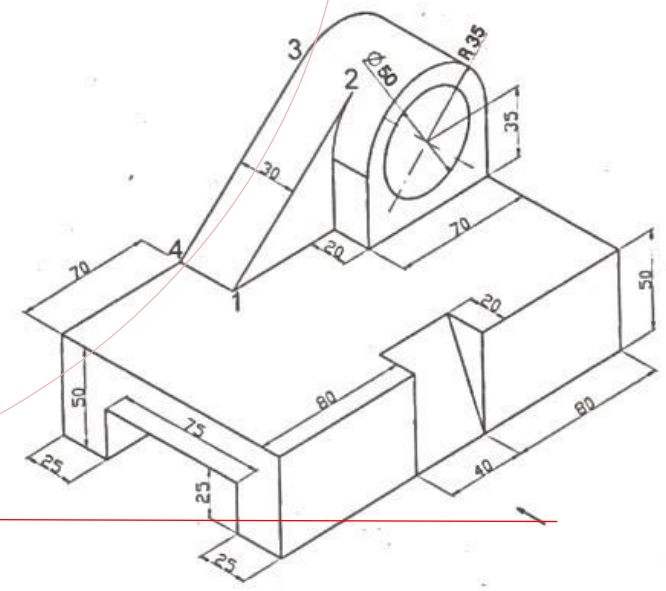
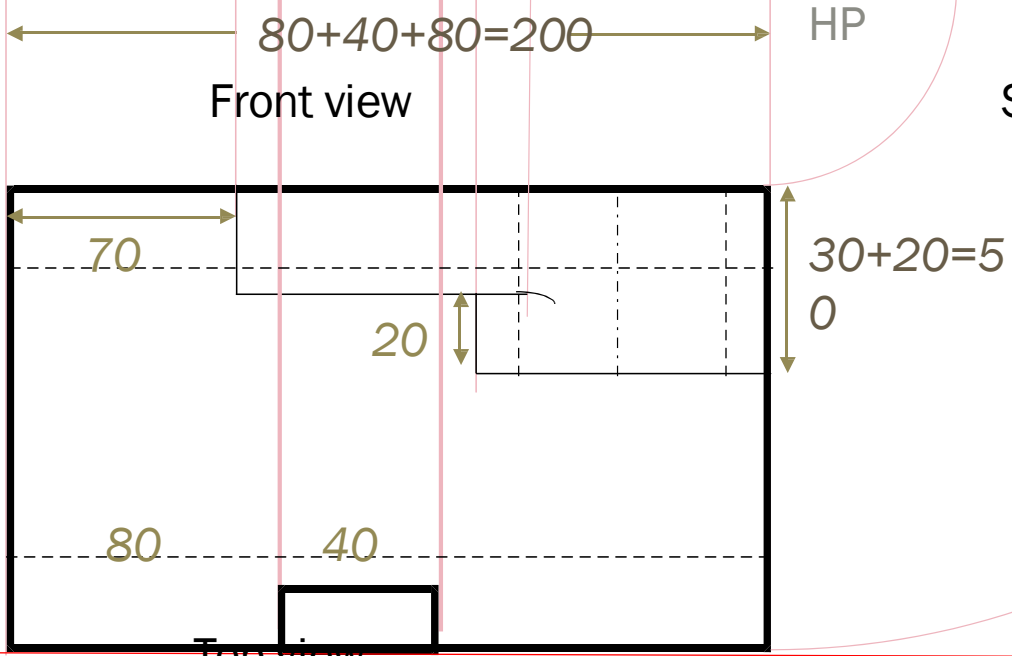
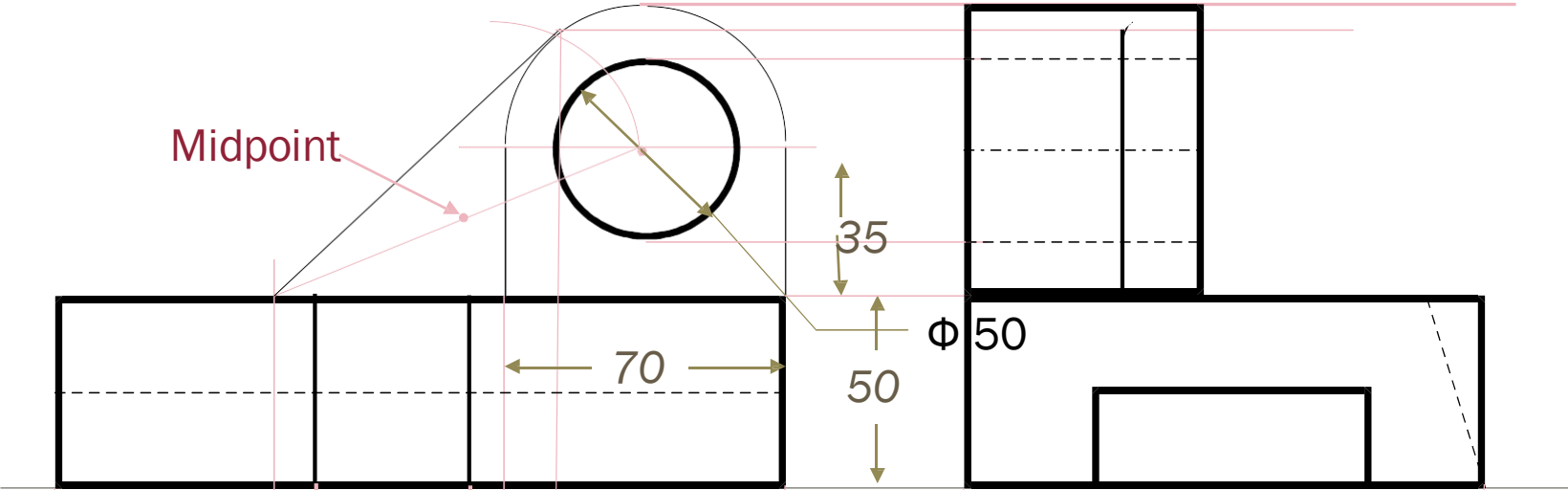
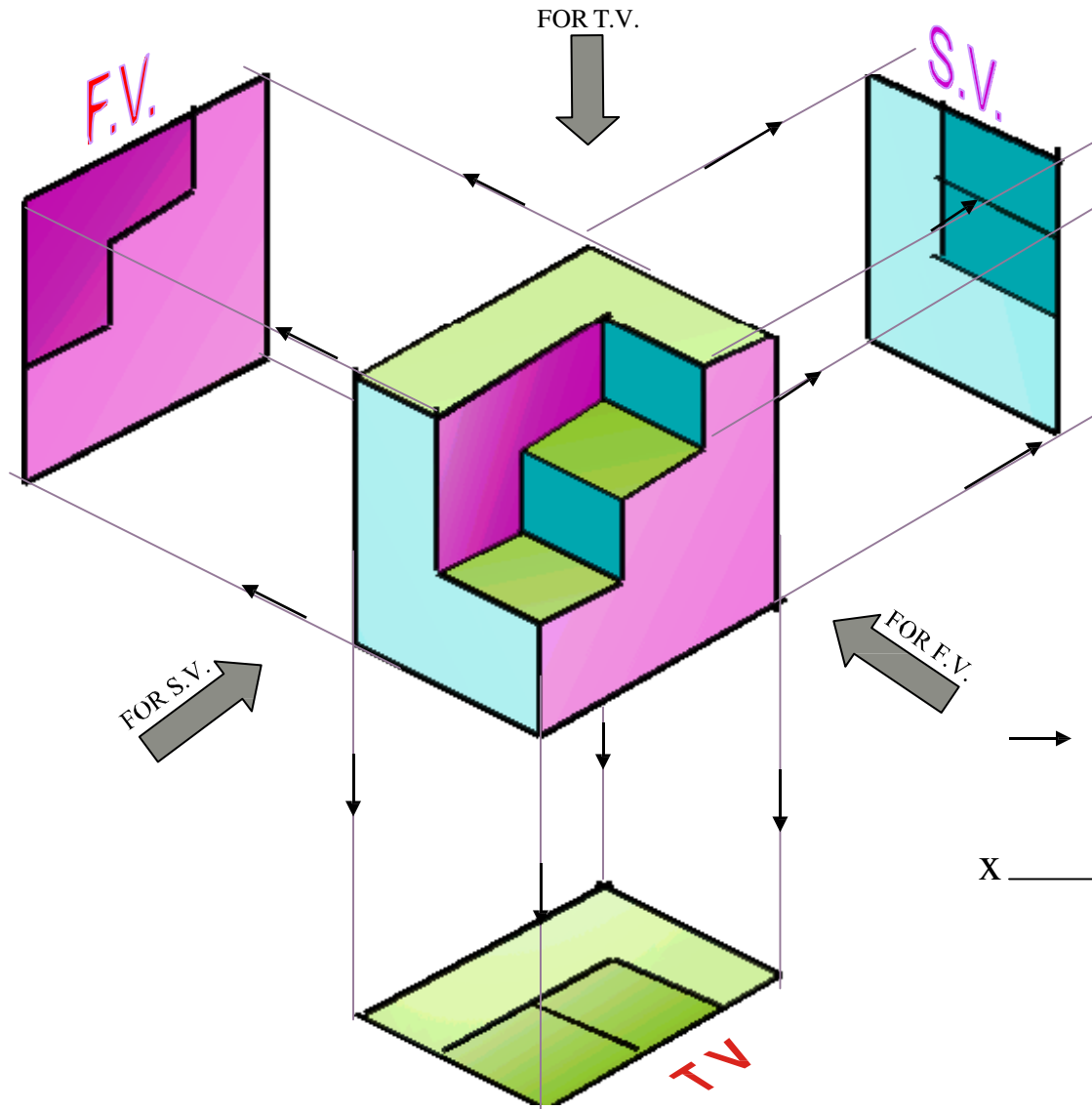


Fig. 1

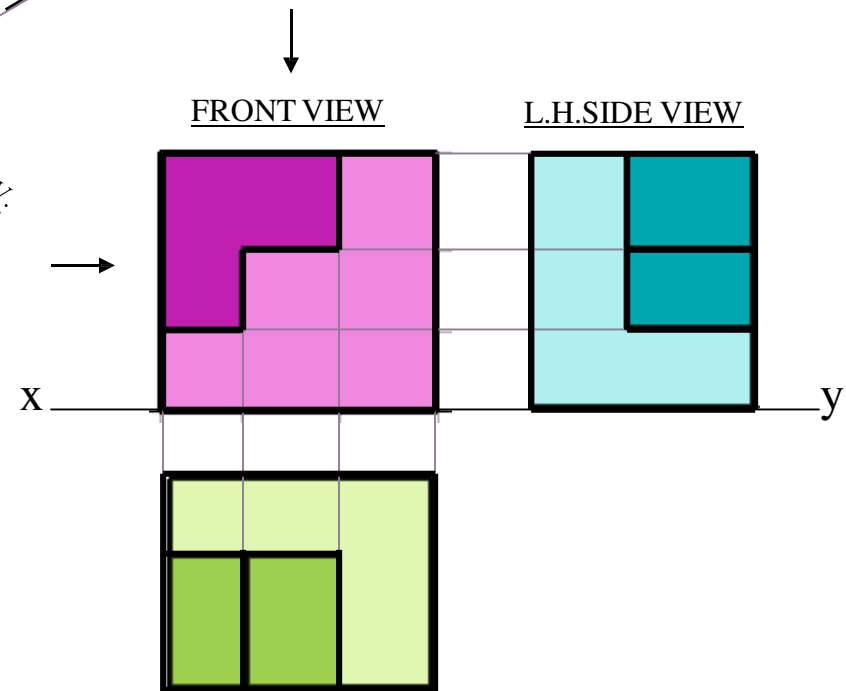




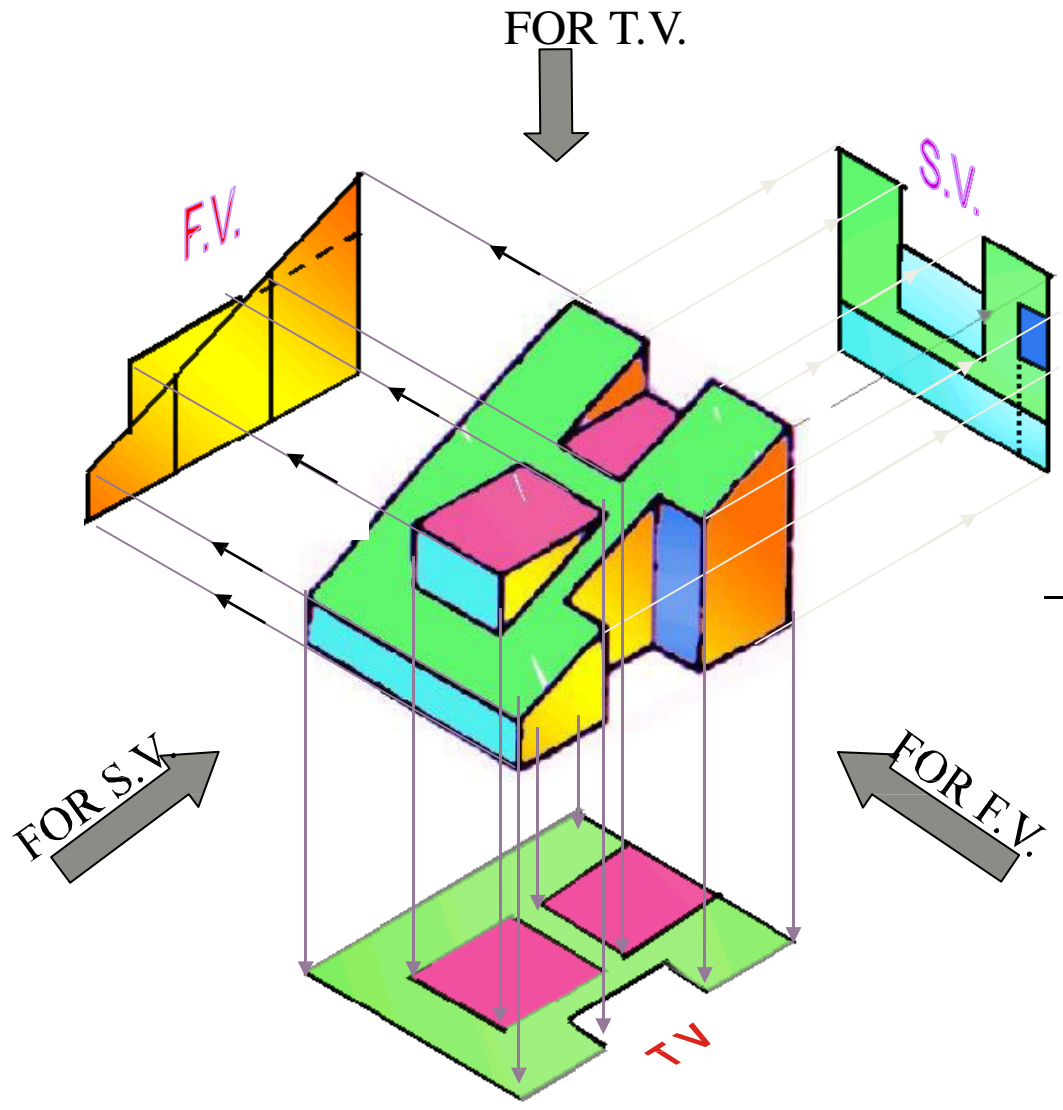
Example-2



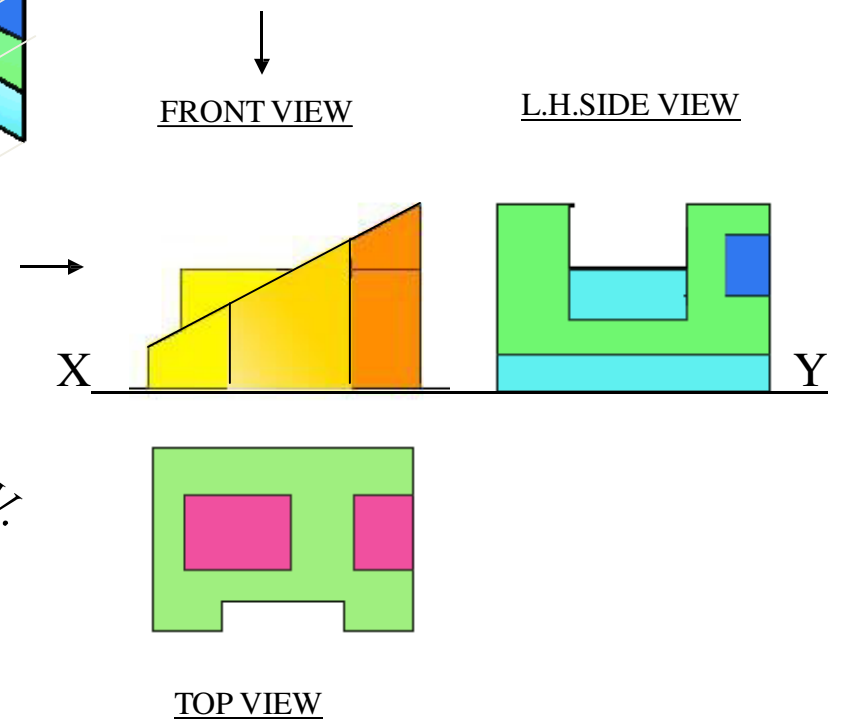
ORTHOGRAPHIC PROJECTIONS



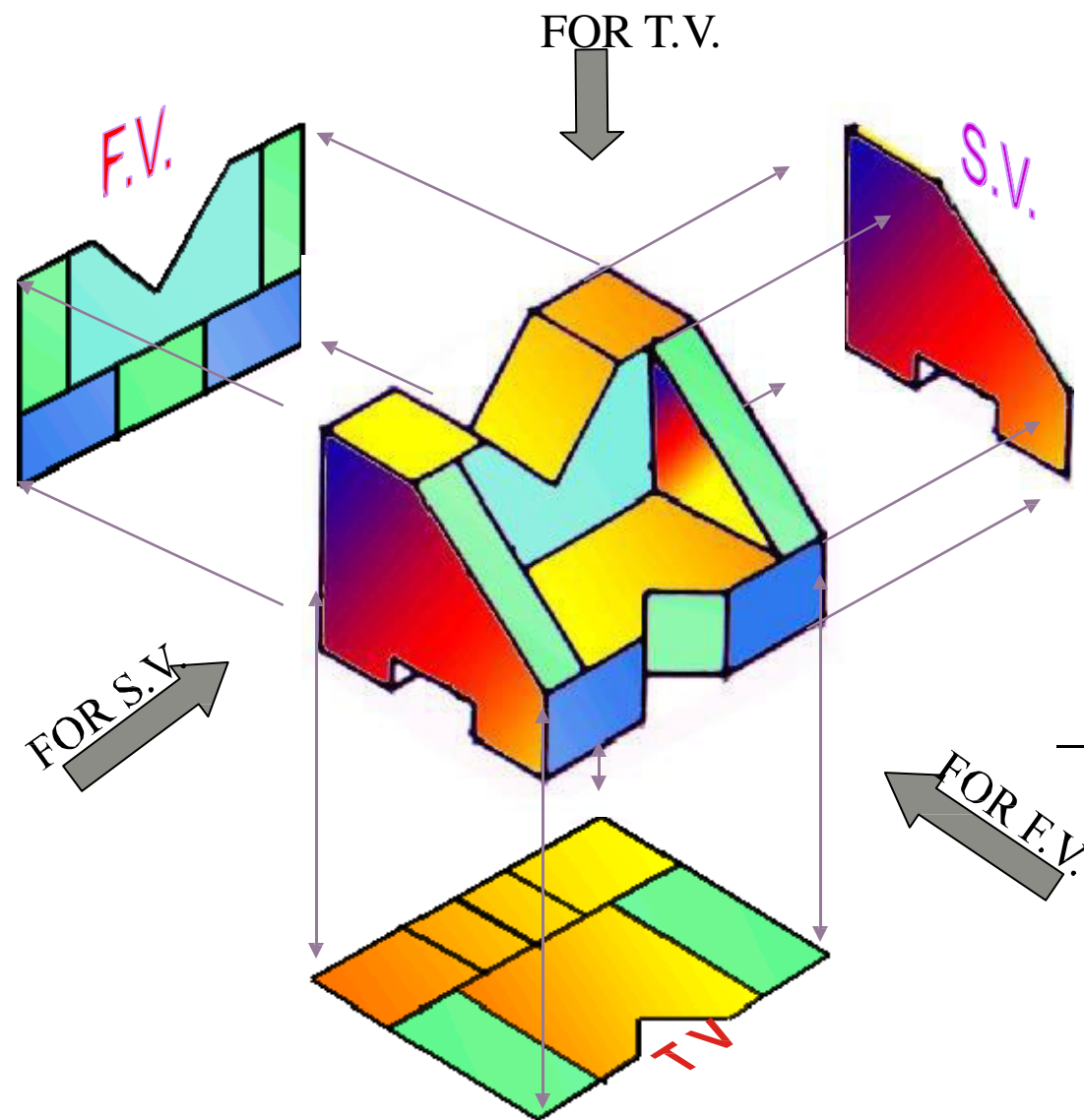
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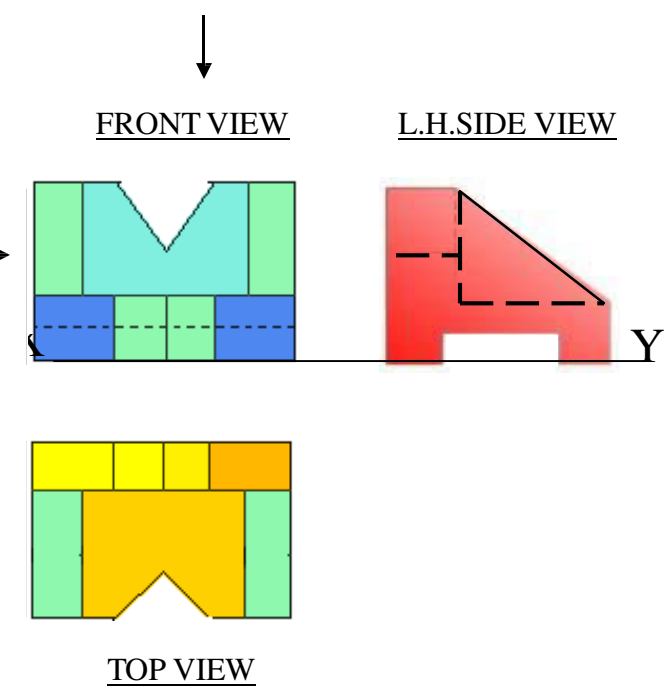
ORTHOGRAPHIC PROJECTIONS



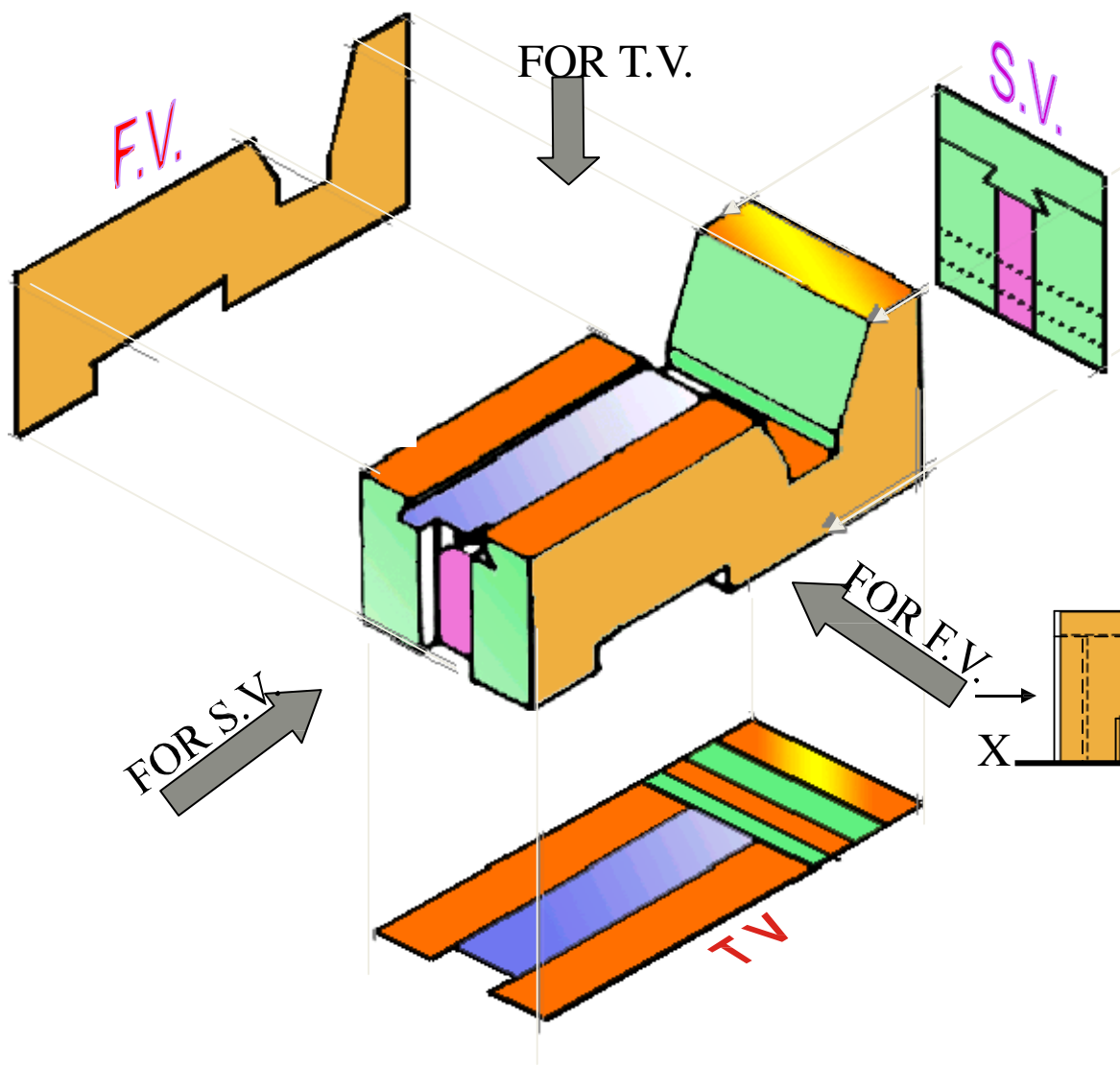
Example-4



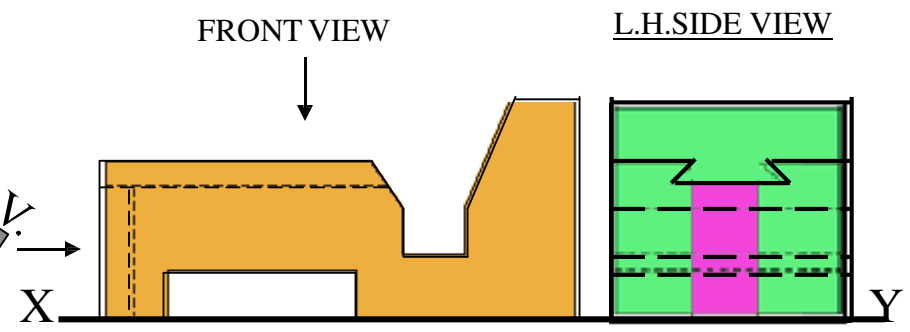
ORTHOGRAPHIC PROJECTIONS



Example-5



ORTHOGRAPHIC PROJECTIONS



FOR S.V.

FOR E.V.

F.V.

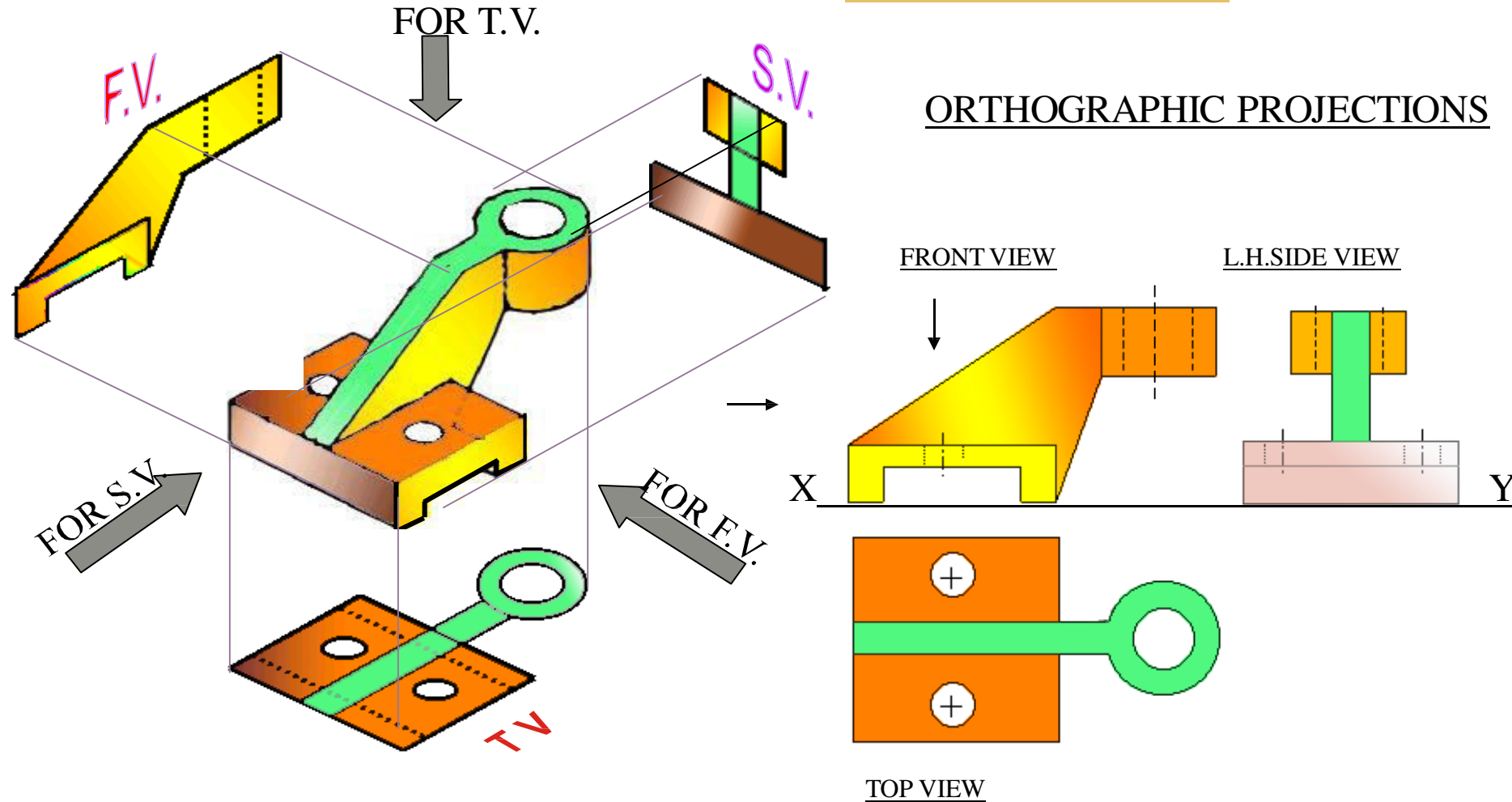
FOR T.V.

S.V.

TV

TOP VIEW

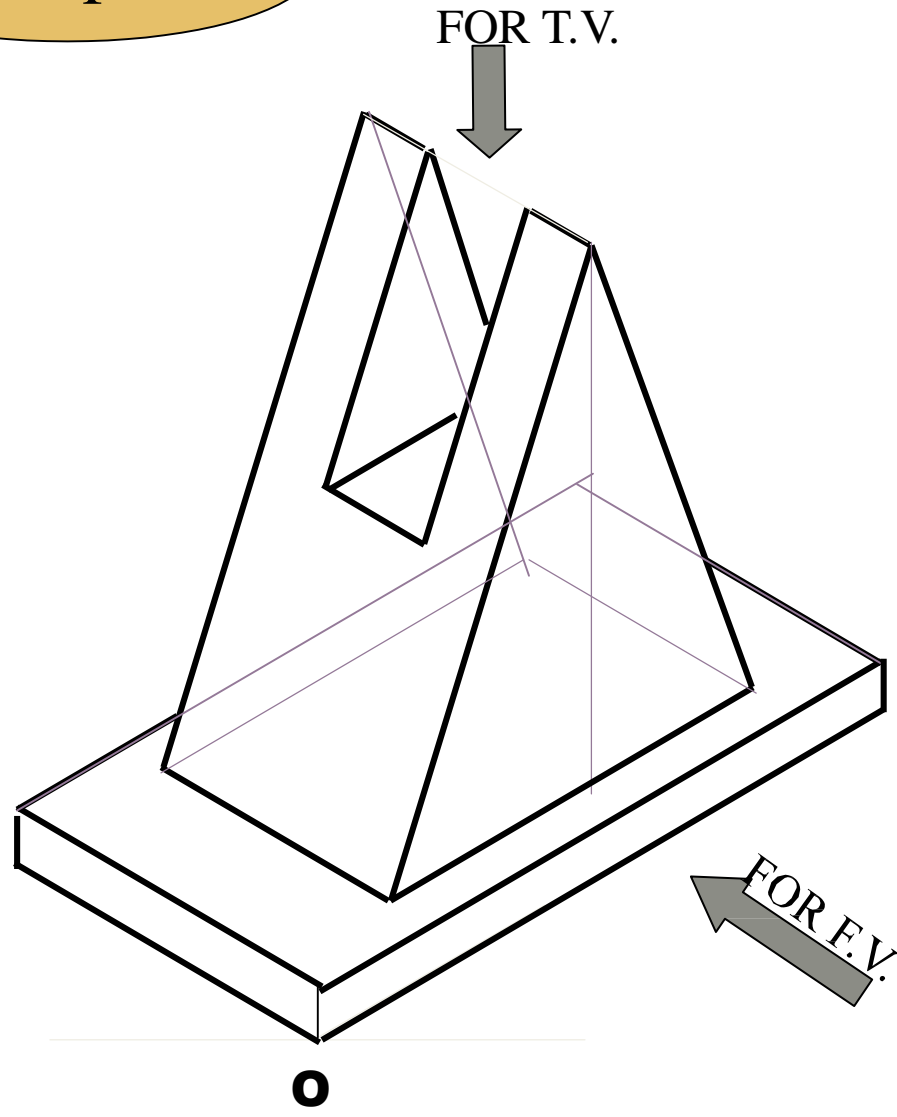
Example-6



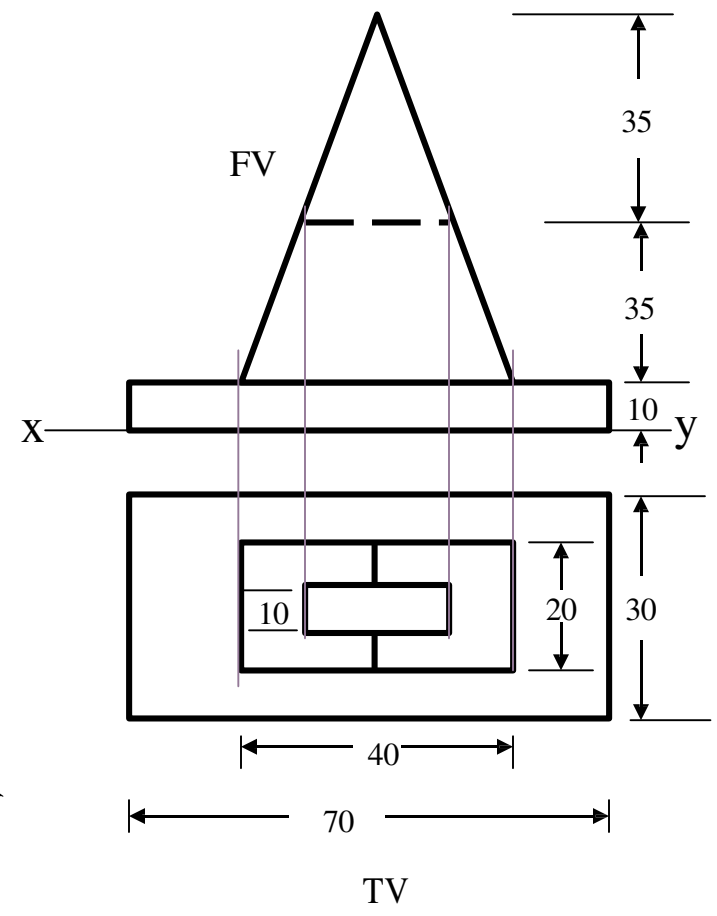
PICTORIAL PRESENTATION IS GIVEN

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

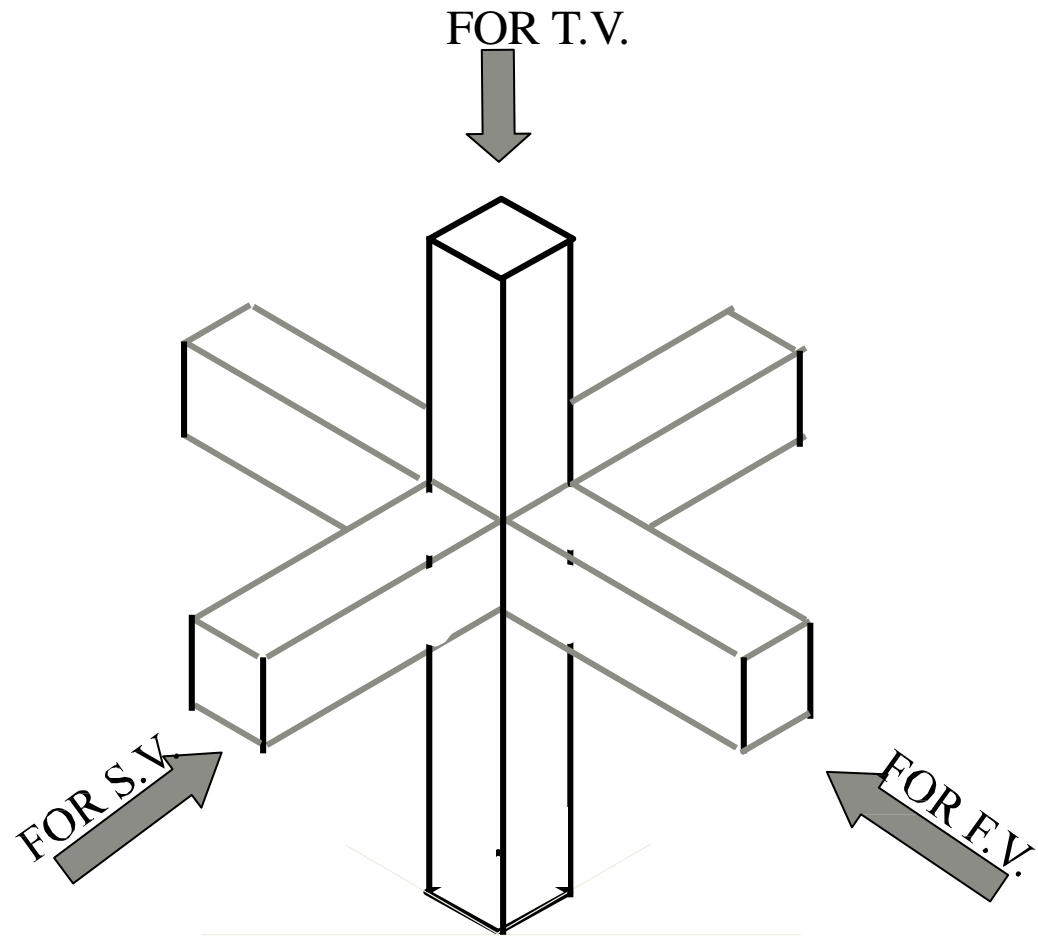
Example-7



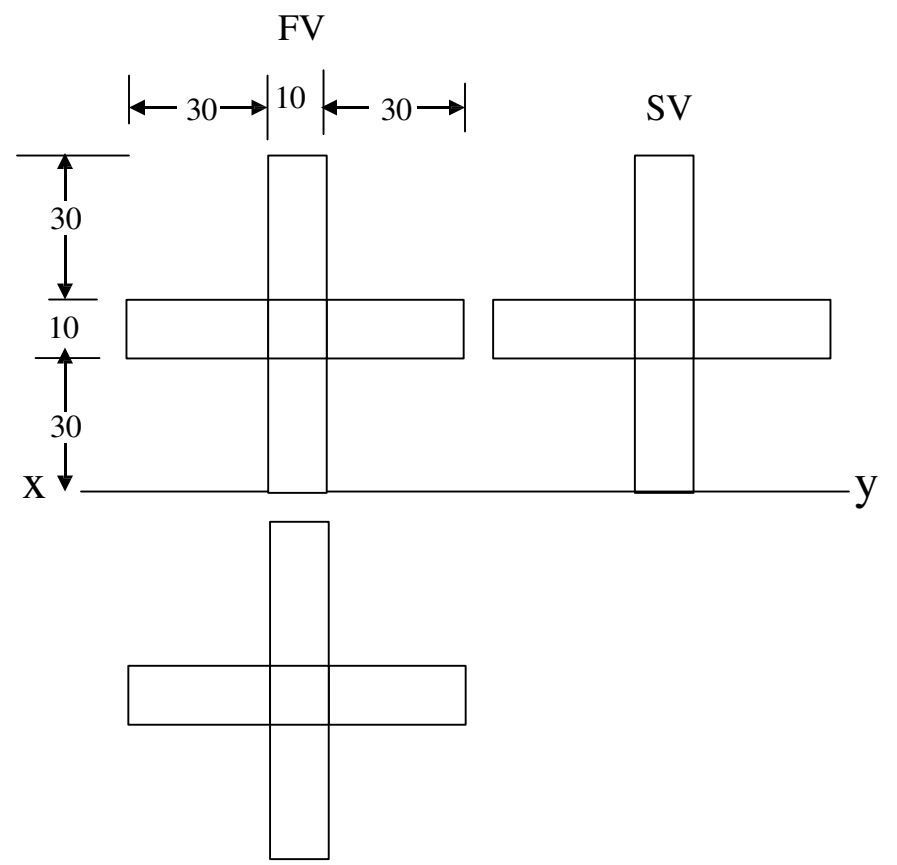
ORTHOGRAPHIC PROJECTIONS



Example-8

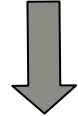


ORTHOGRAPHIC PROJECTIONS



Example-9

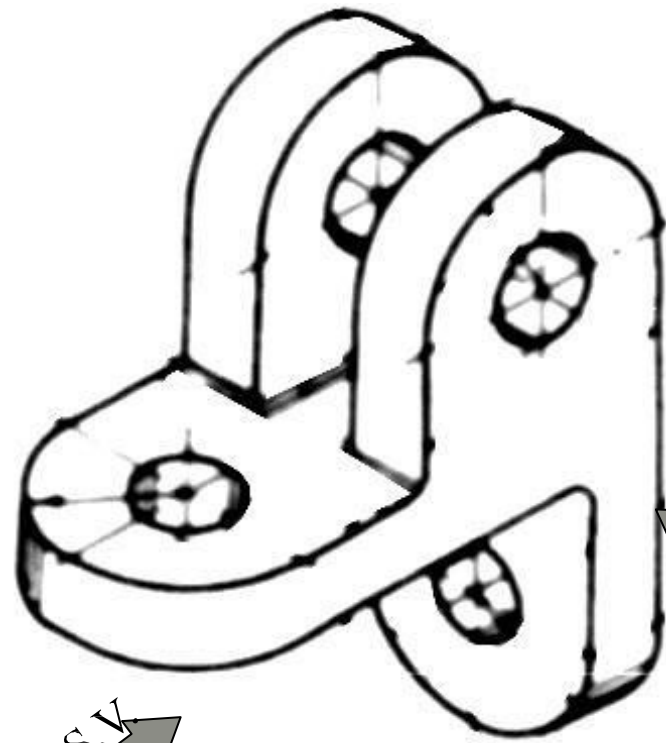
FOR T.V.



FOR S.V.

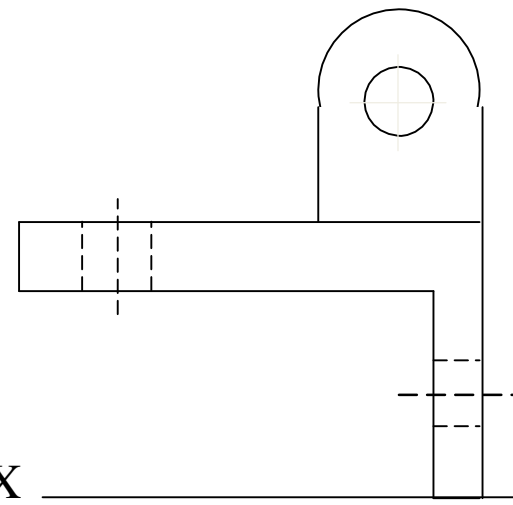


FOR F.V.

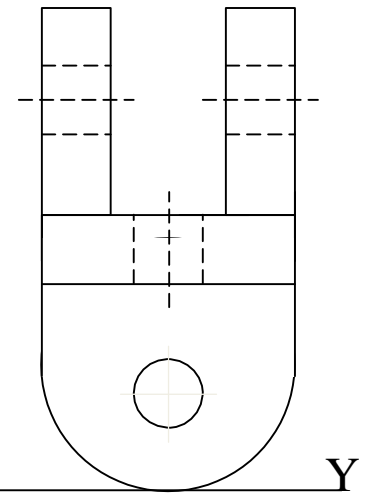


ORTHOGRAPHIC PROJECTIONS

FRONT VIEW



L.H.SIDE VIEW



X

Y

TOP VIEW

