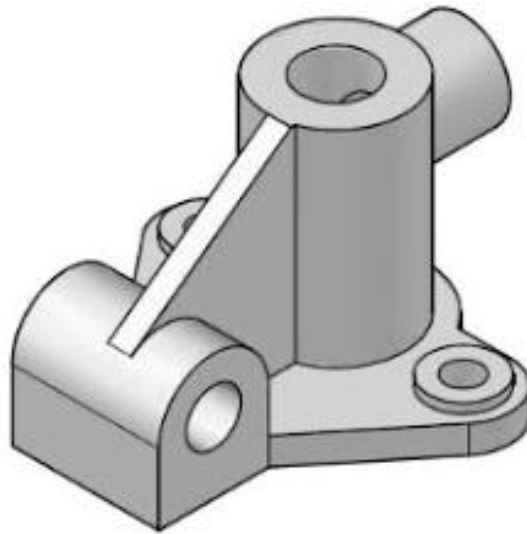


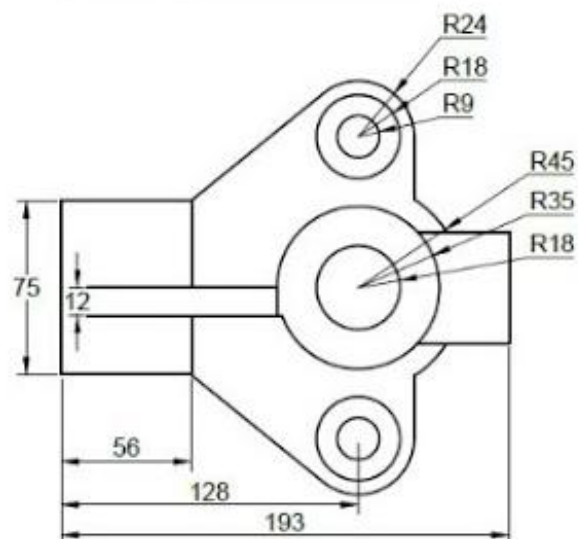
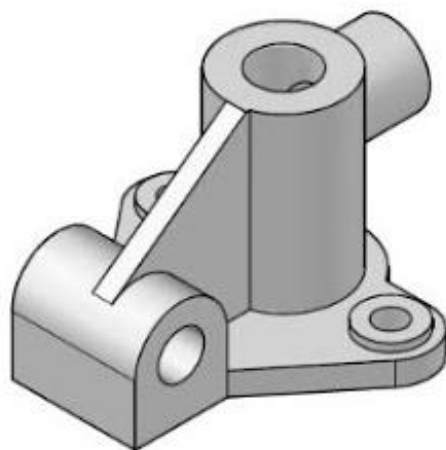
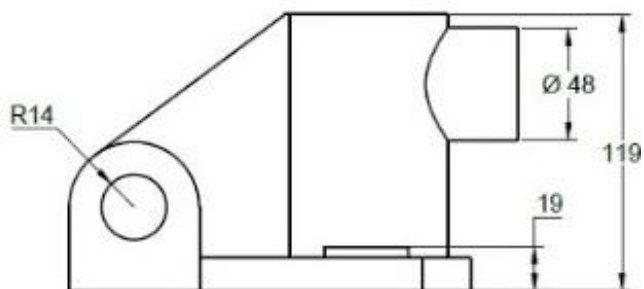
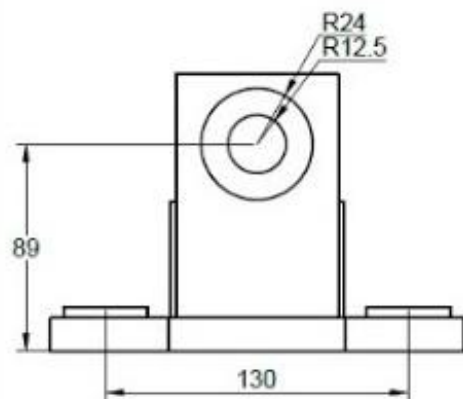
ENGINEERING DRAWING

Topic: Orthographic Projections

<https://www.youtube.com/watch?v=e6tMYAmPZOQ>

Orthographic Projections



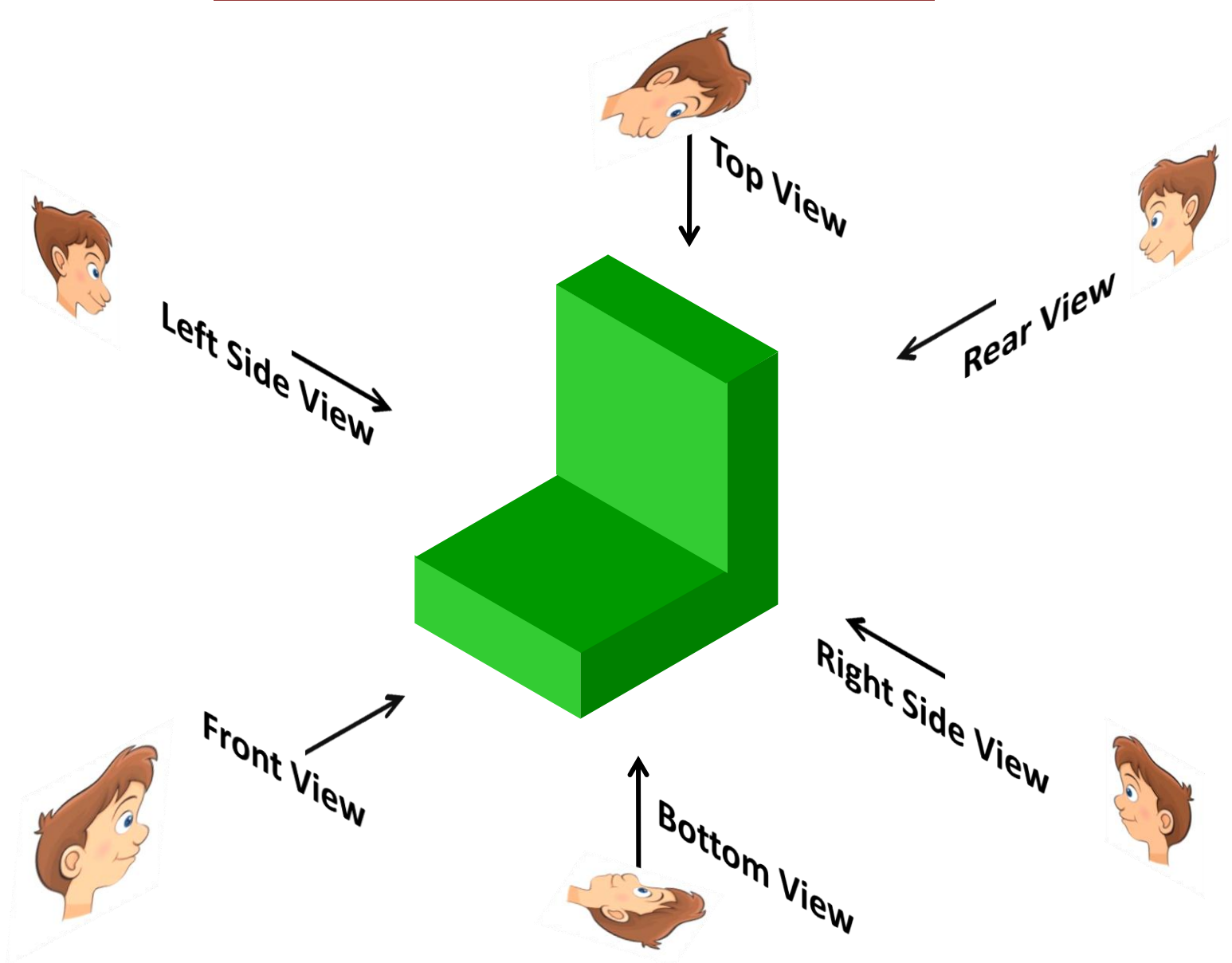


NOTES:-

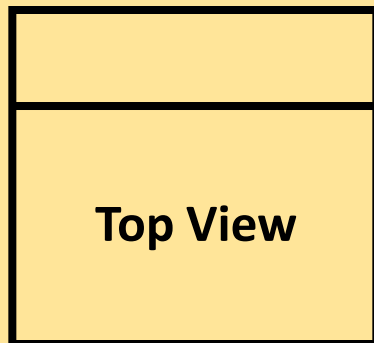
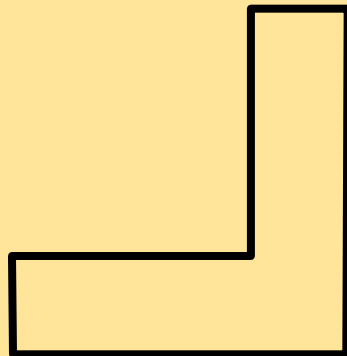
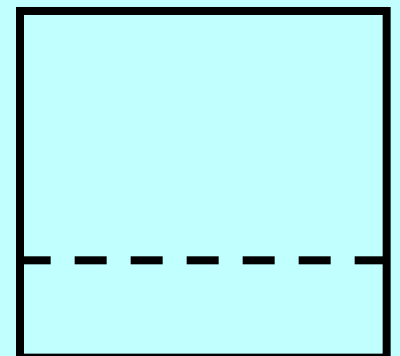
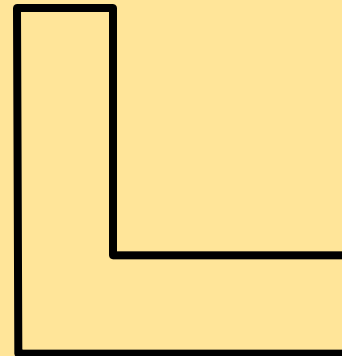
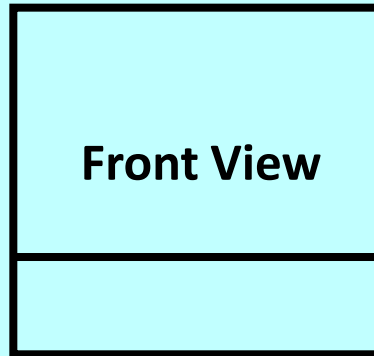
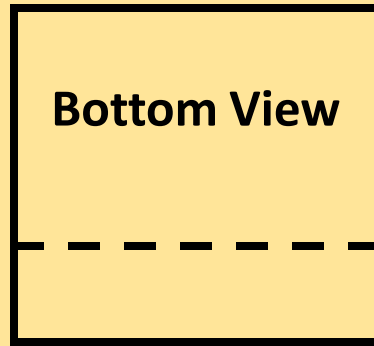
1. THIS IS A DUMMY DRAWING MADE FOR ENGINEERING STUDENTS.

REV.	REV. DATE	REV. DESCRIPTION	REV. APPROVED
TITLE			DATE FOR LAYOUT
DUMMY DRAWING			DATE
			ALL DIM. IN mm
			1 OF 1
			1:1

Six Principal Views



Six Principal Views

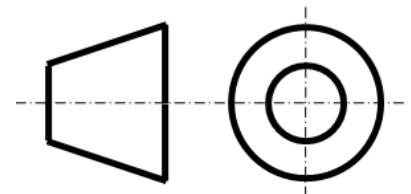


Right Side View

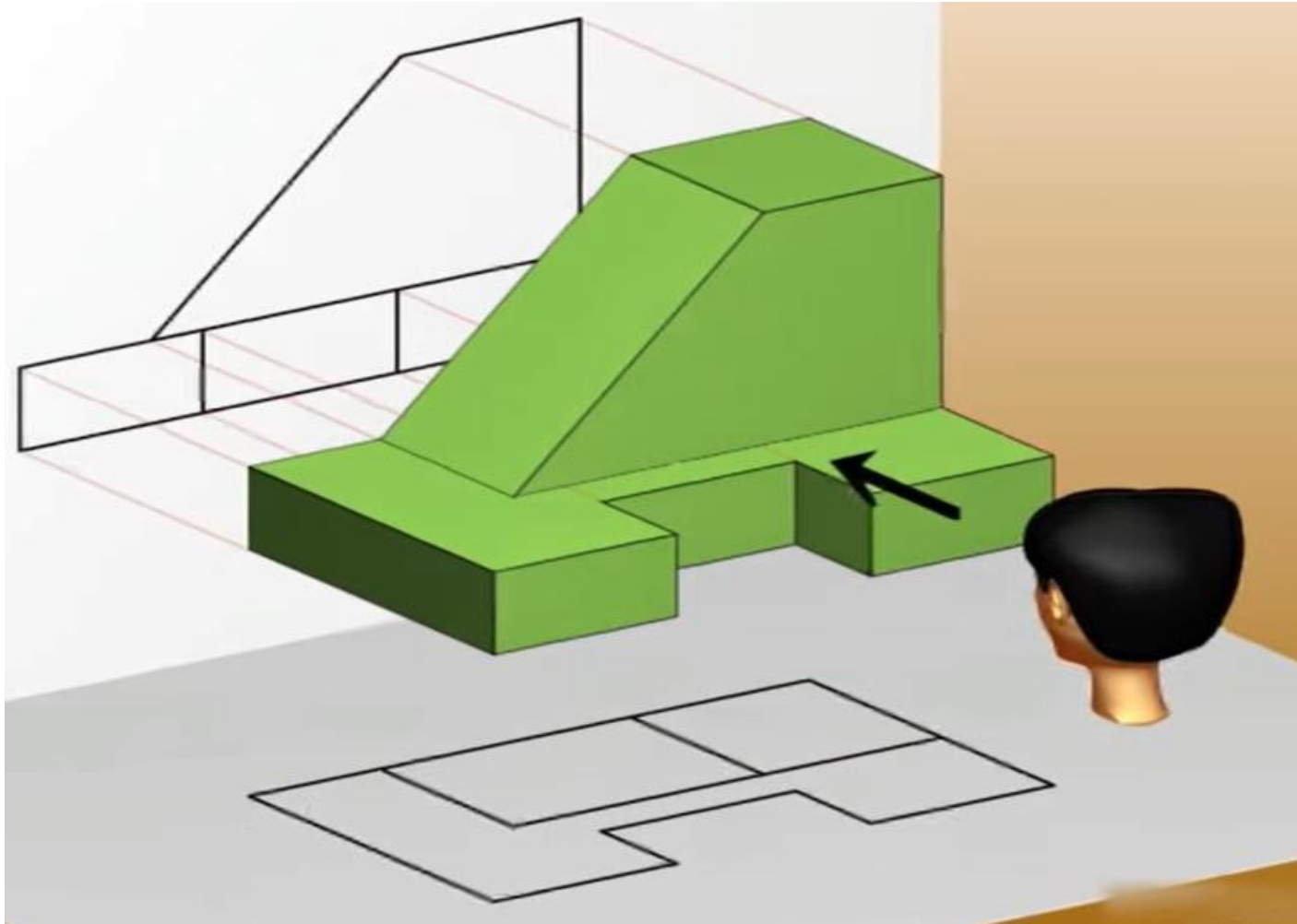
Left Side View

Rear View

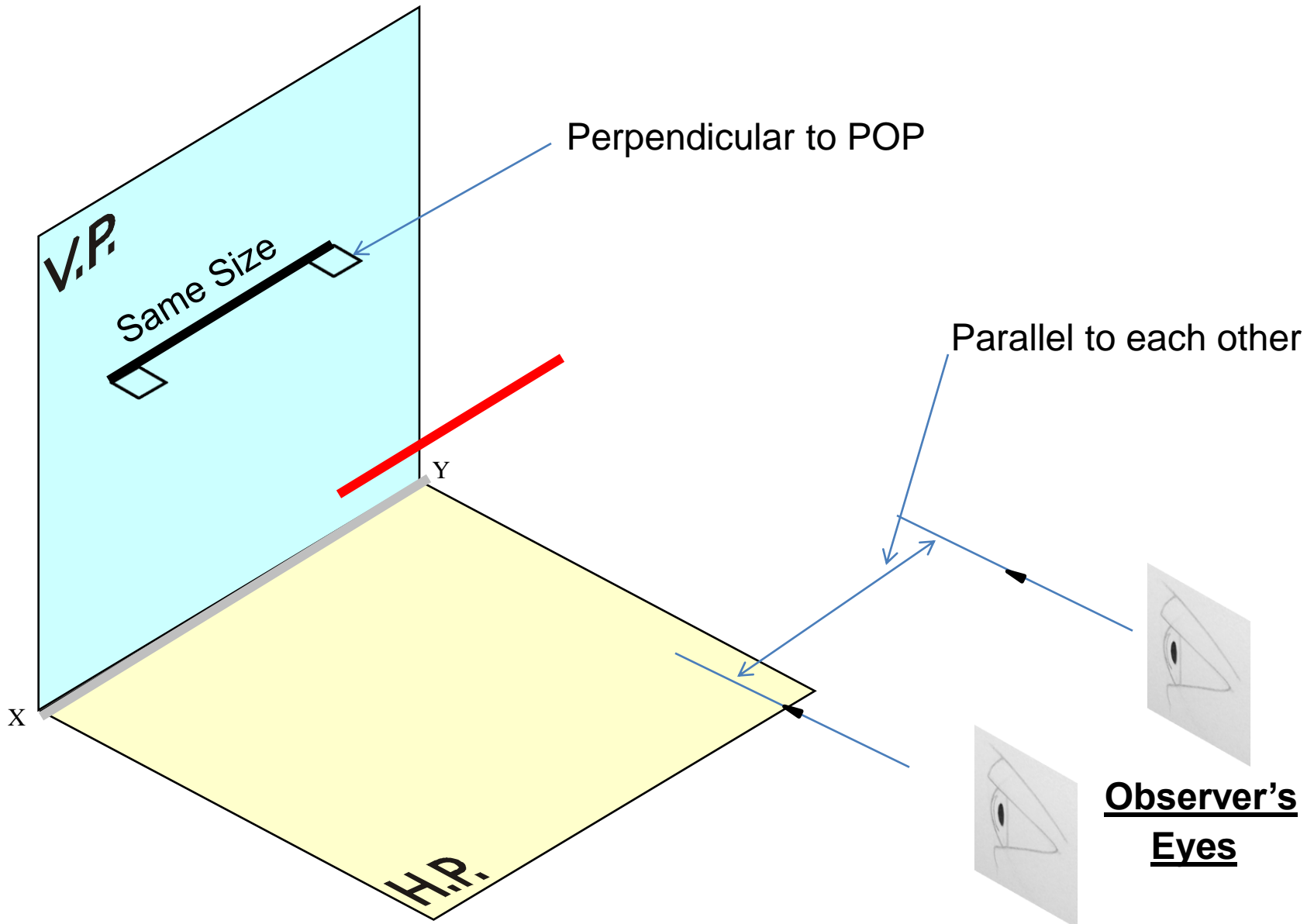
Top View



Orthographic Projections

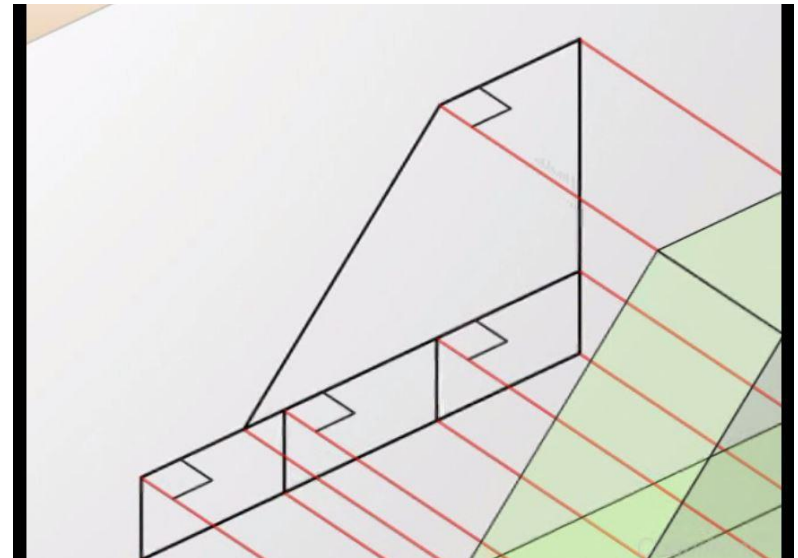
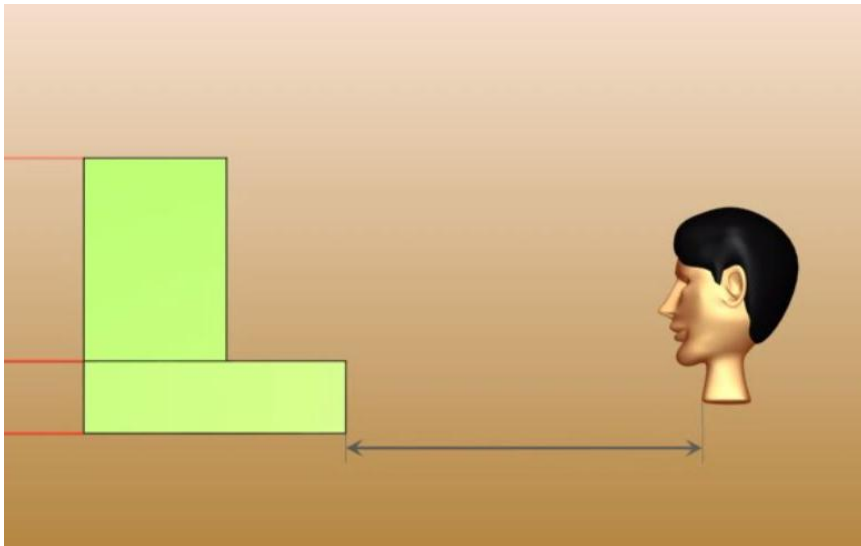


Orthographic Projections

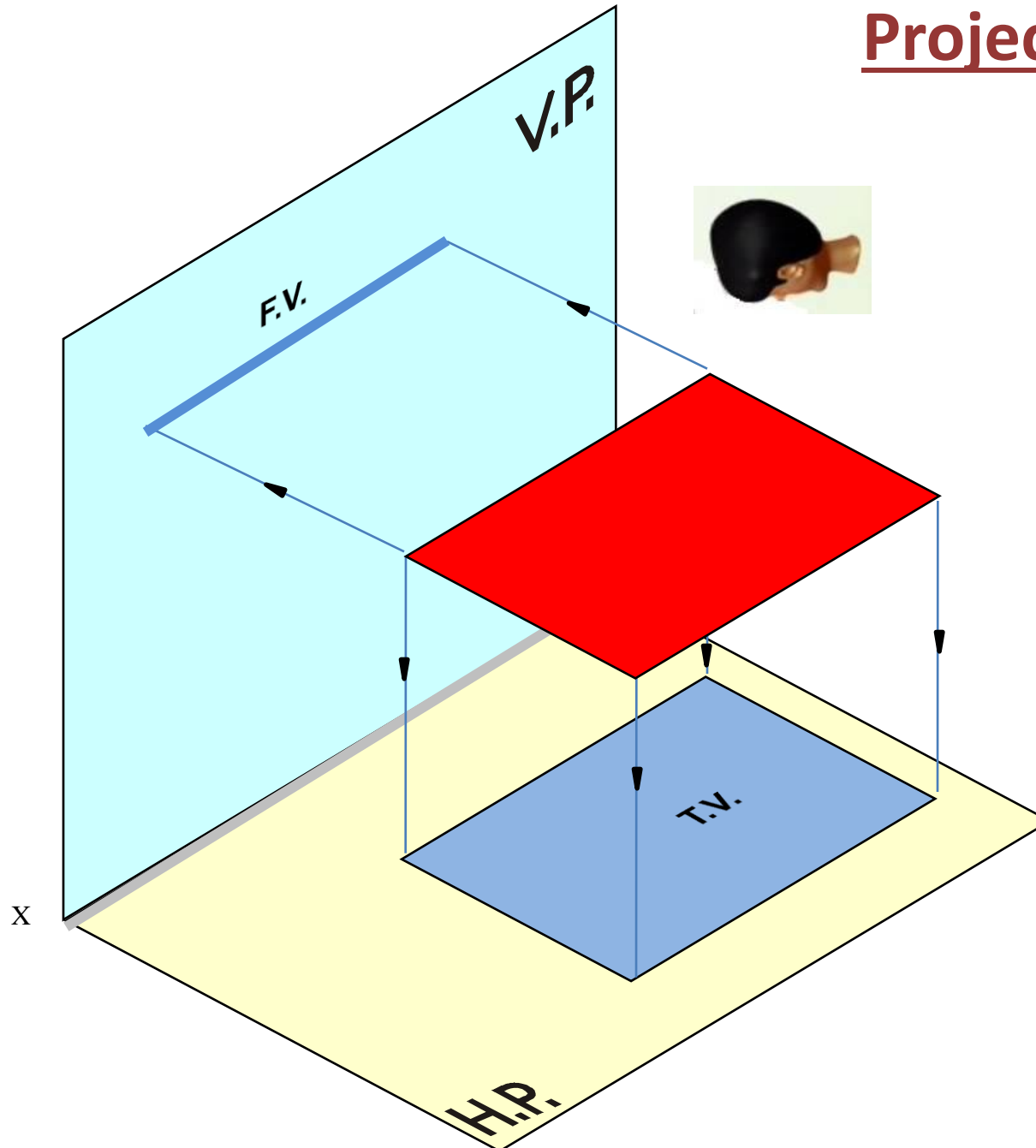


Orthographic Projections

If observer's eye is at an infinite distance from an object such that the lines of sight are parallel to each other and perpendicular to the plane of projection, the projection obtained, which would be of the same size and shape as the facing surface of the object, is called an orthographic projection.



Projections of Planes



F.V. – Line II to XY
T.V. – True Shape



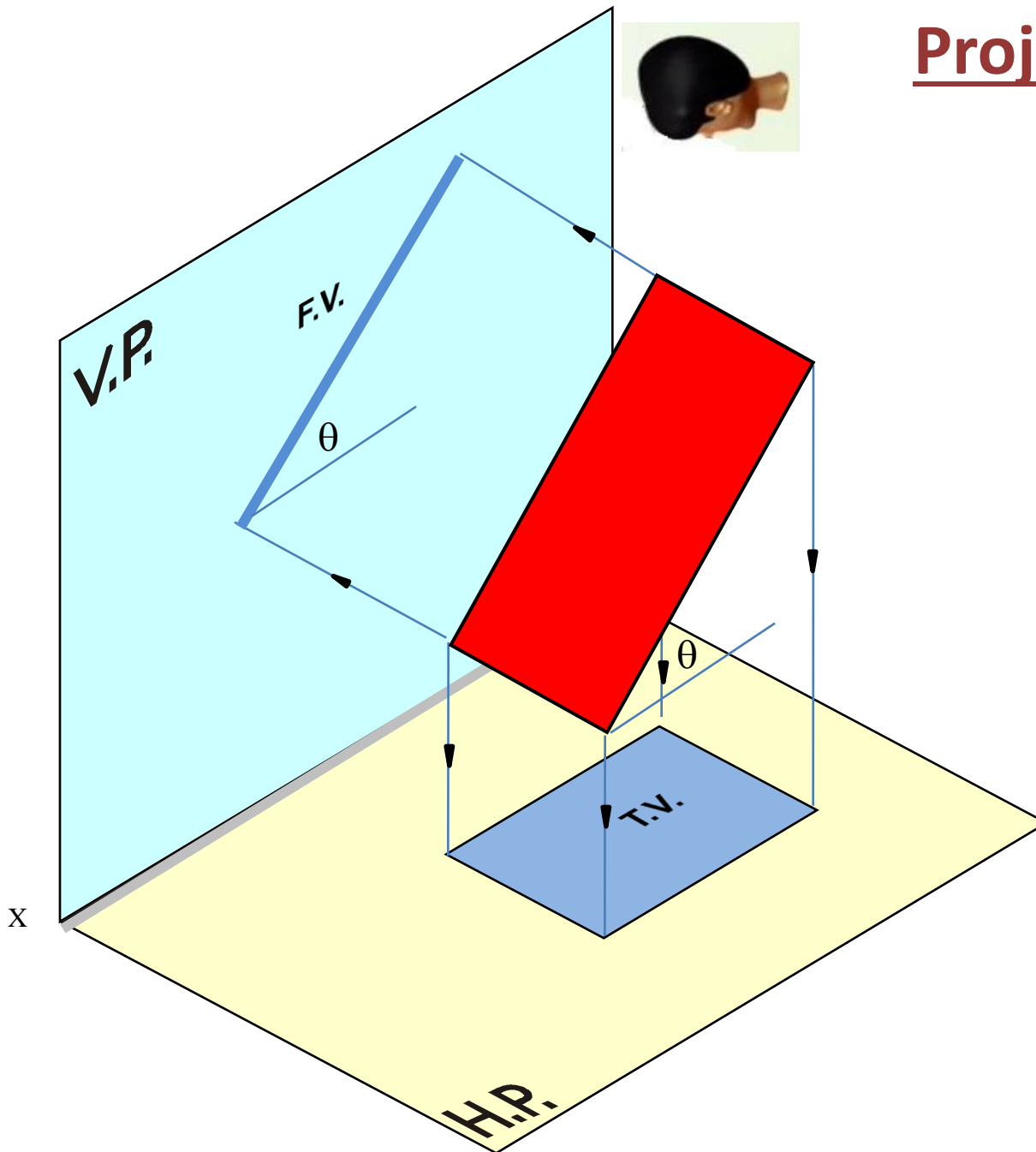
Observer

Projections of Planes

Important Points:

- 1. When a plane is perpendicular to a reference plane, its projection on that plane is an edge view, i.e., a straight line.**
- 2. When a plane is parallel to a reference plane, its projection on that plane projects its true shape and size.**

Projections of Planes



F.V. – Line inclined to XY
T.V. – Reduced Shape



Observer

Projections of Planes

Important Points:

- 1. When a plane is inclined to a reference plane, its projection on that plane is smaller in size than the plane itself.**

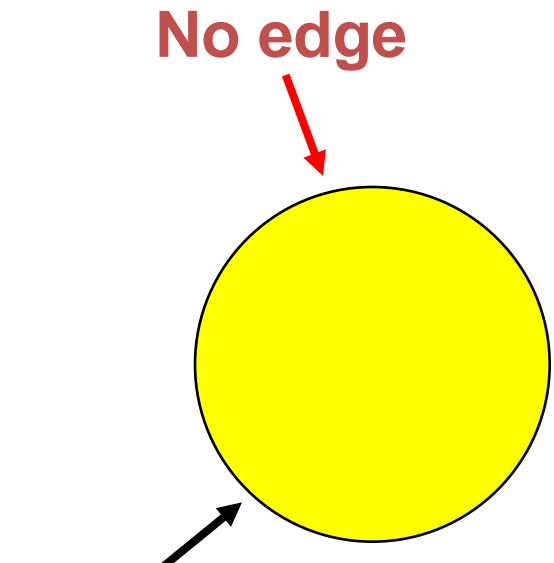
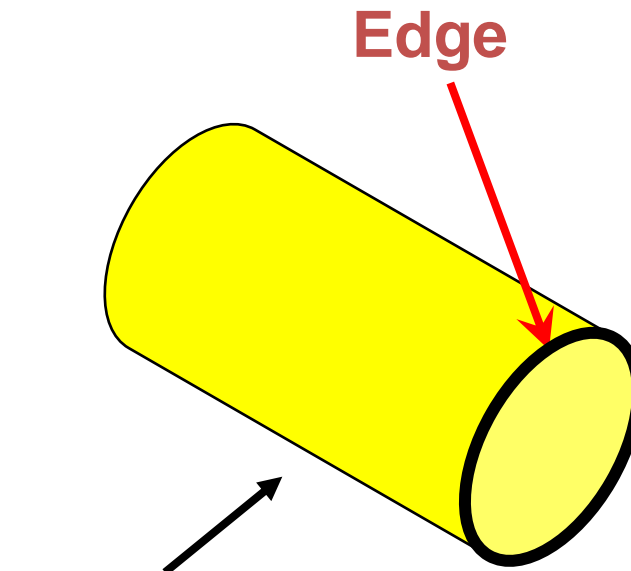
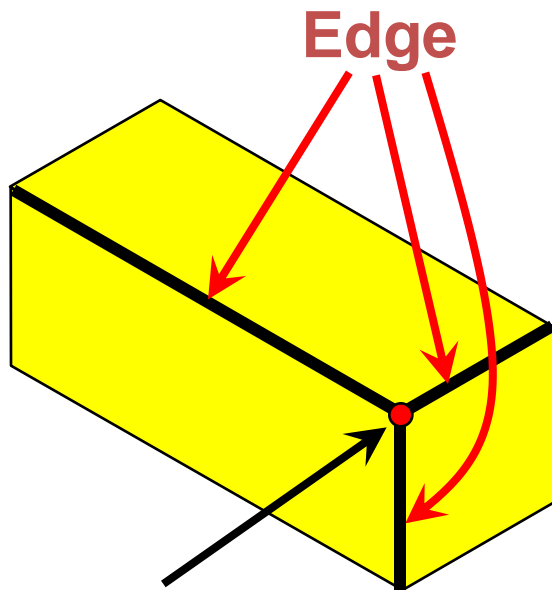
Features of Objects

Edge:

It is a line that represent the boundary between two faces.

Corner:

It represent the intersection of two or more edges.



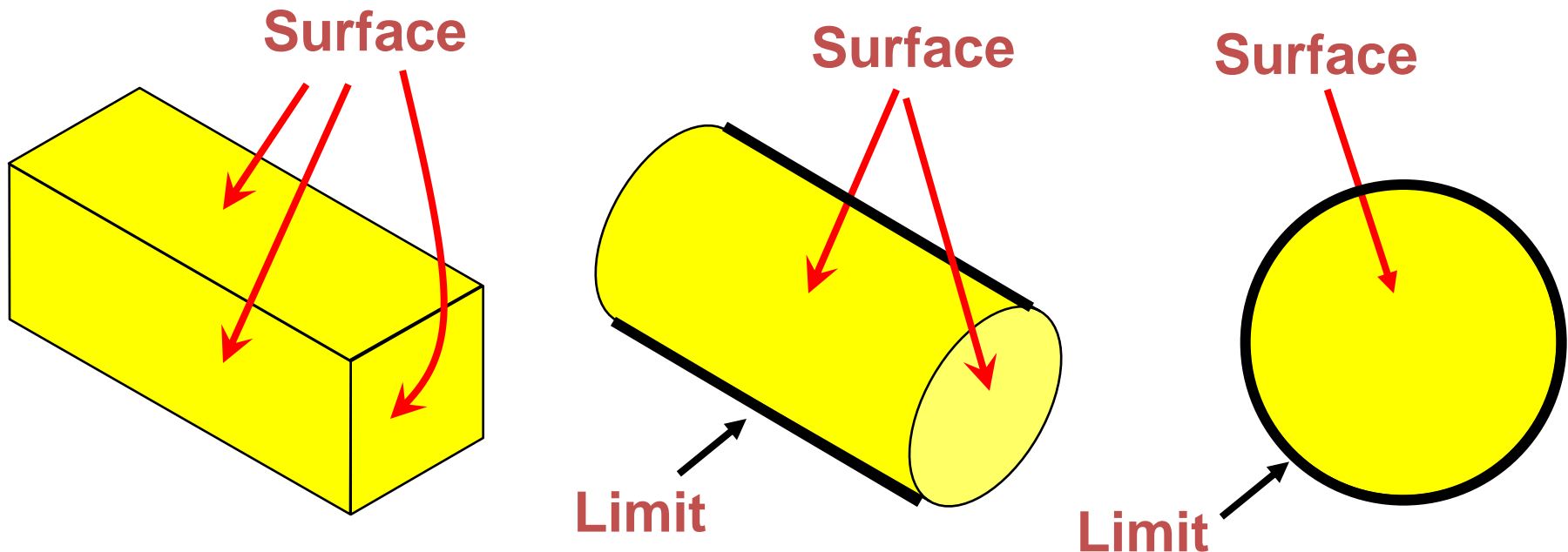
Features of Objects

Surfaces:

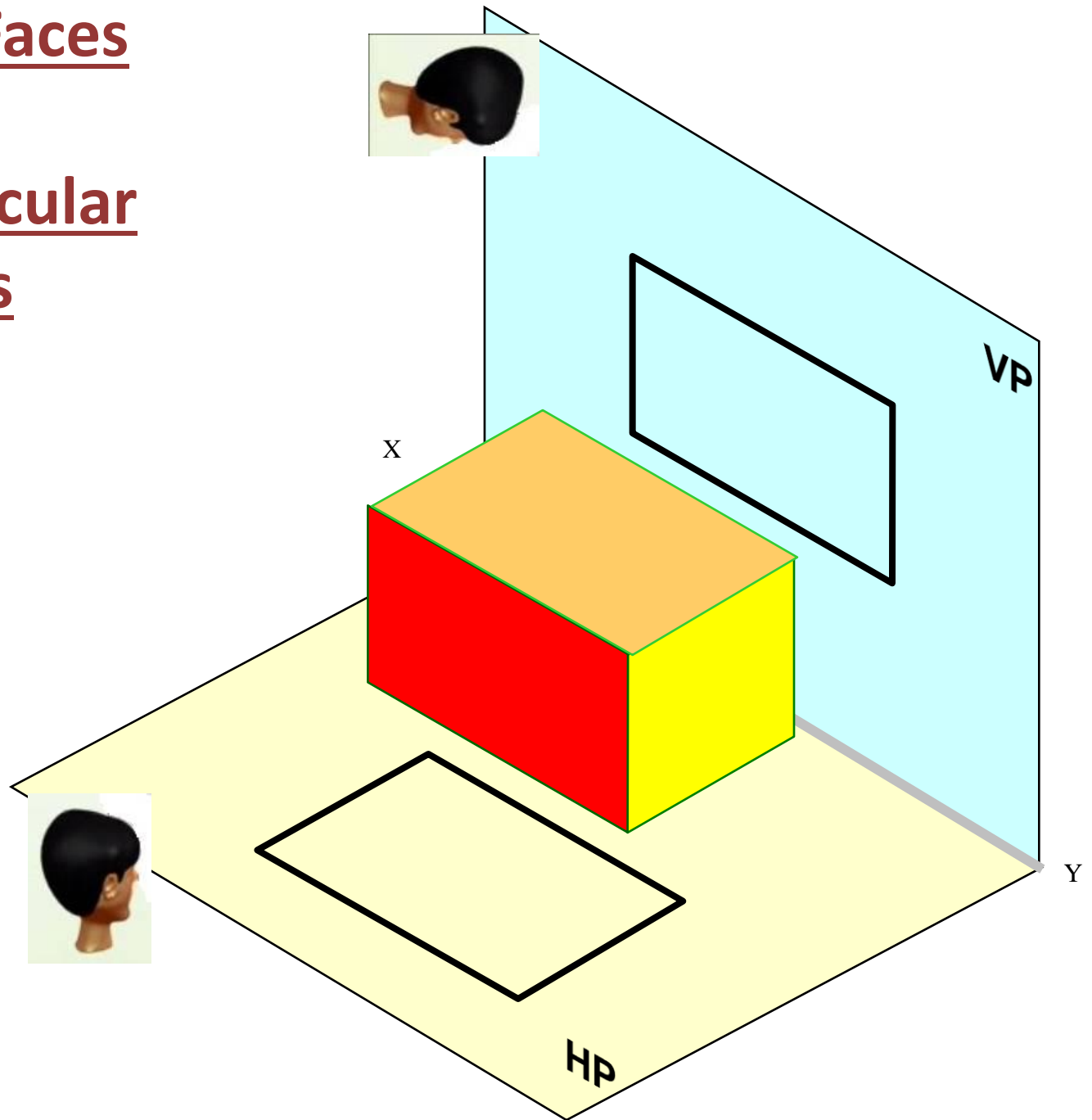
Surfaces are areas that are bound by edges or limiting element.

Limiting element:

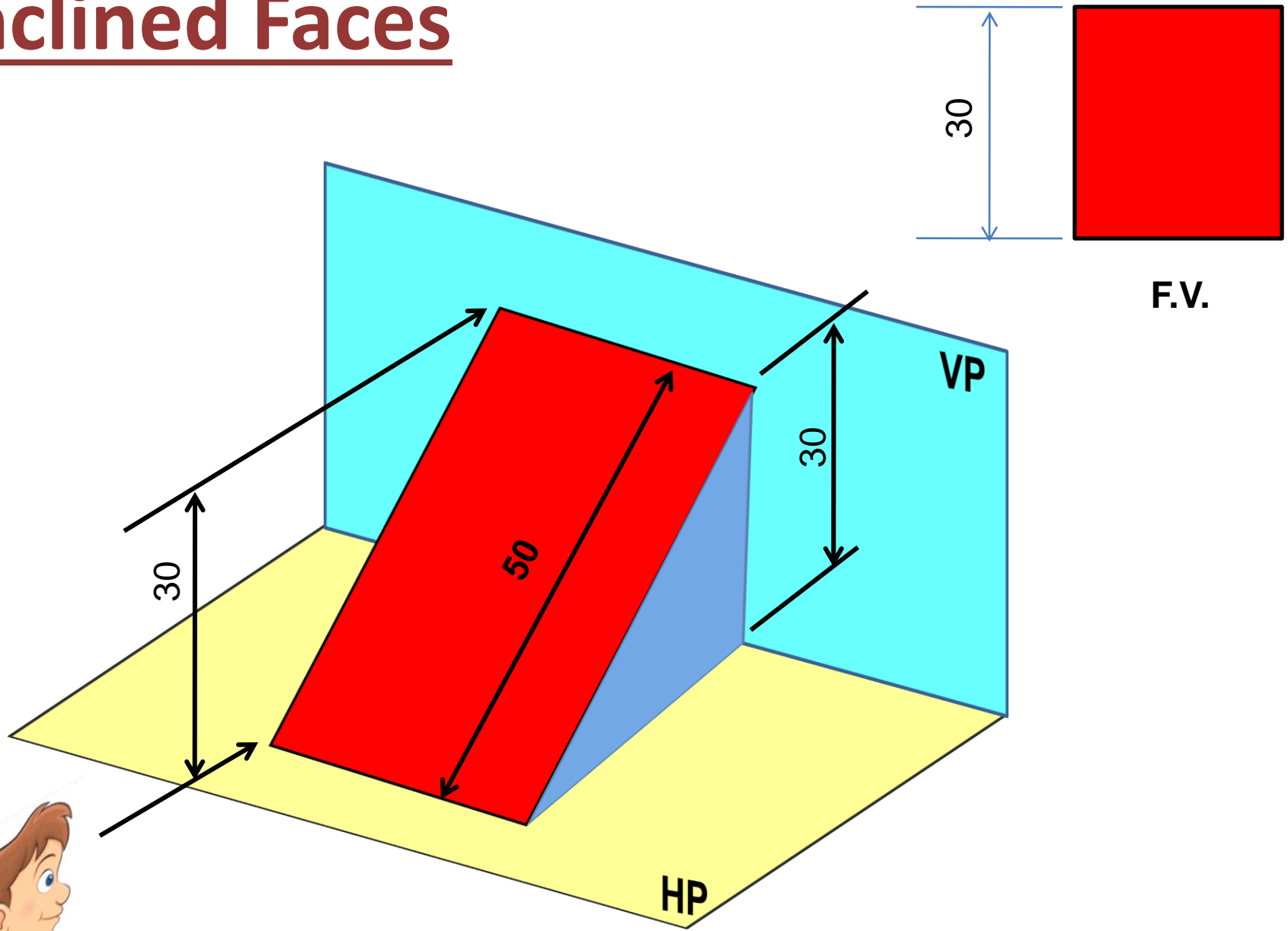
It is a line that represents the last visible part of the curved surface.



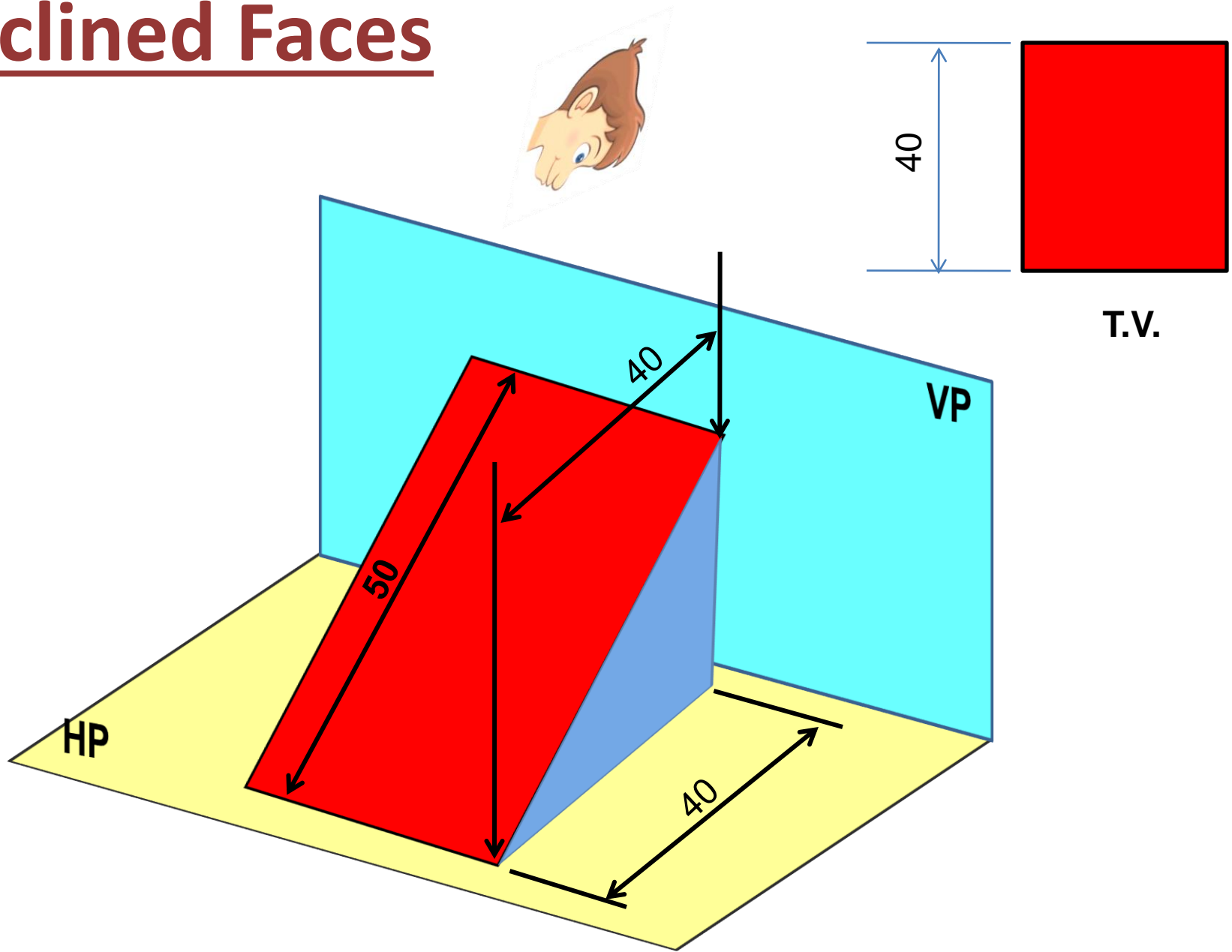
Parallel Faces & Perpendicular Faces



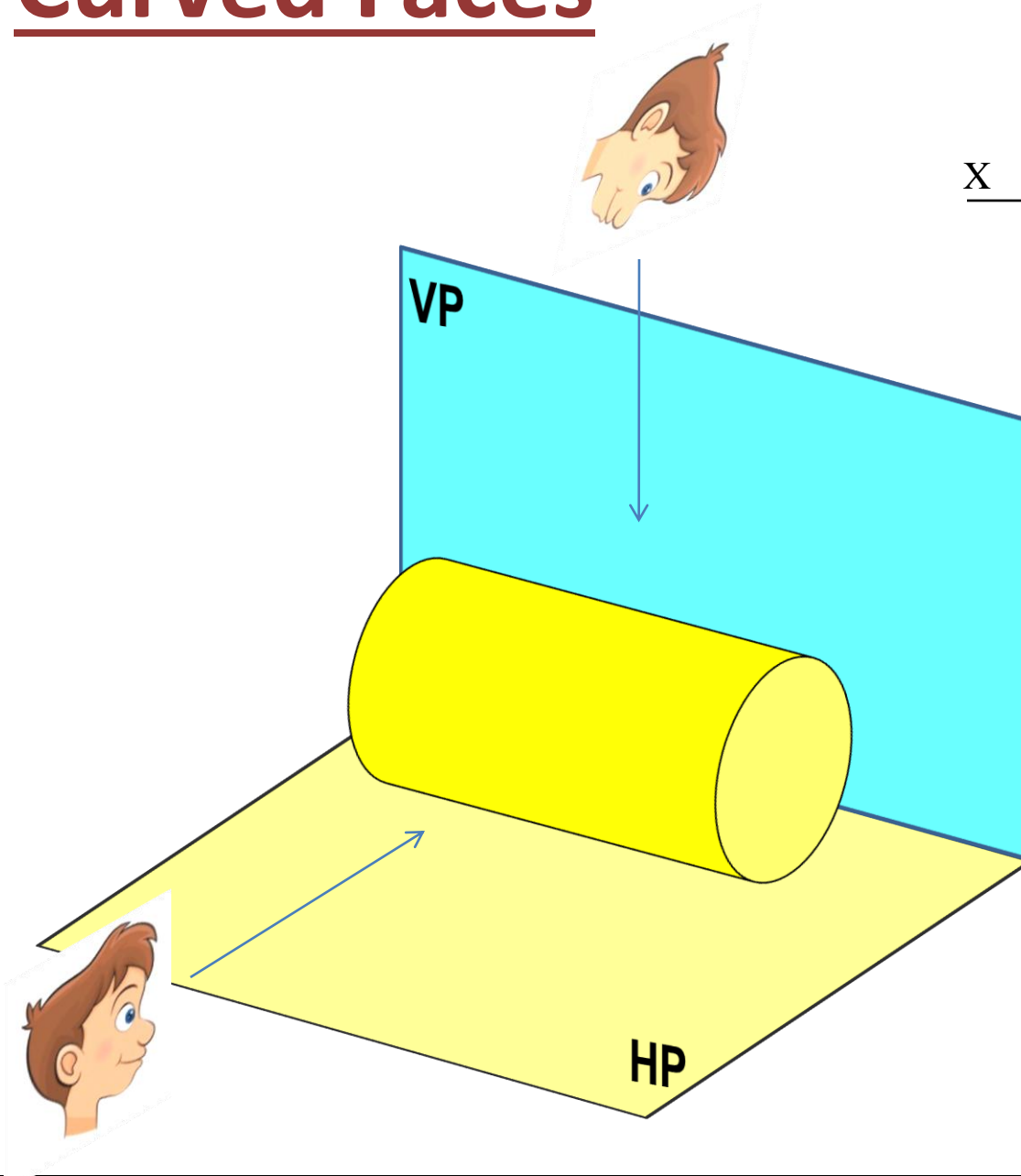
Inclined Faces



Inclined Faces



Curved Faces



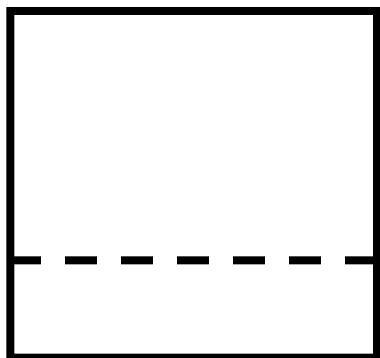
F.V.

X

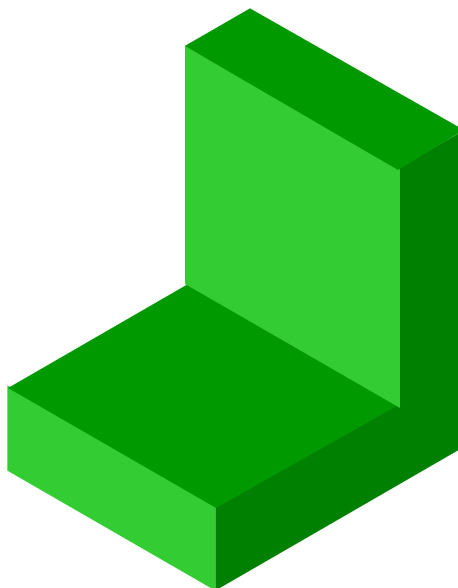
Y

T.V.

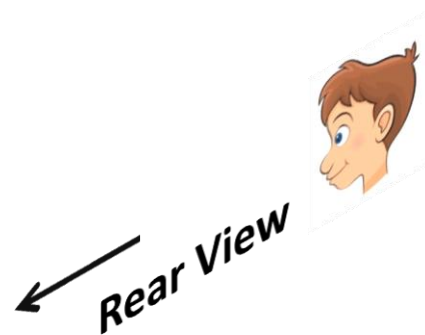
Hidden Faces



Rear View

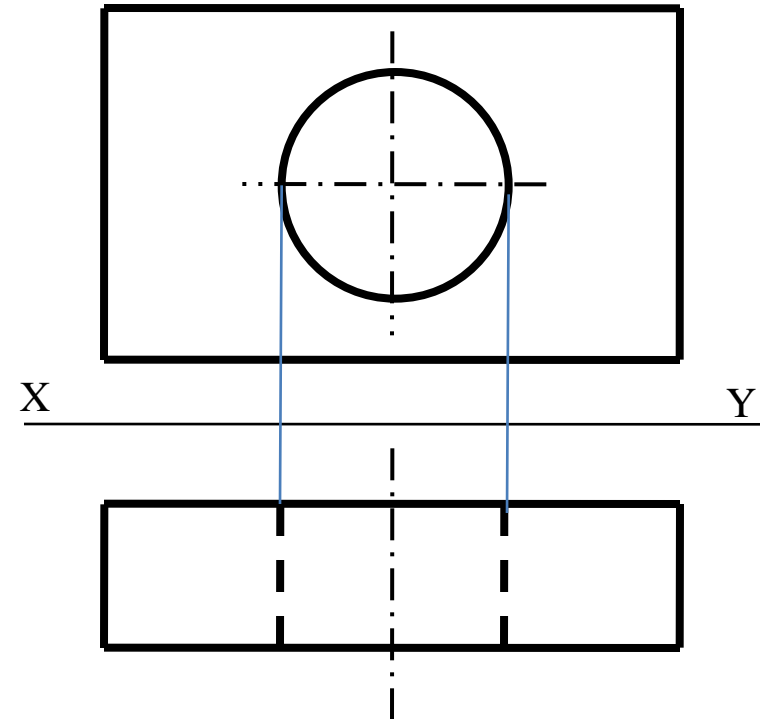
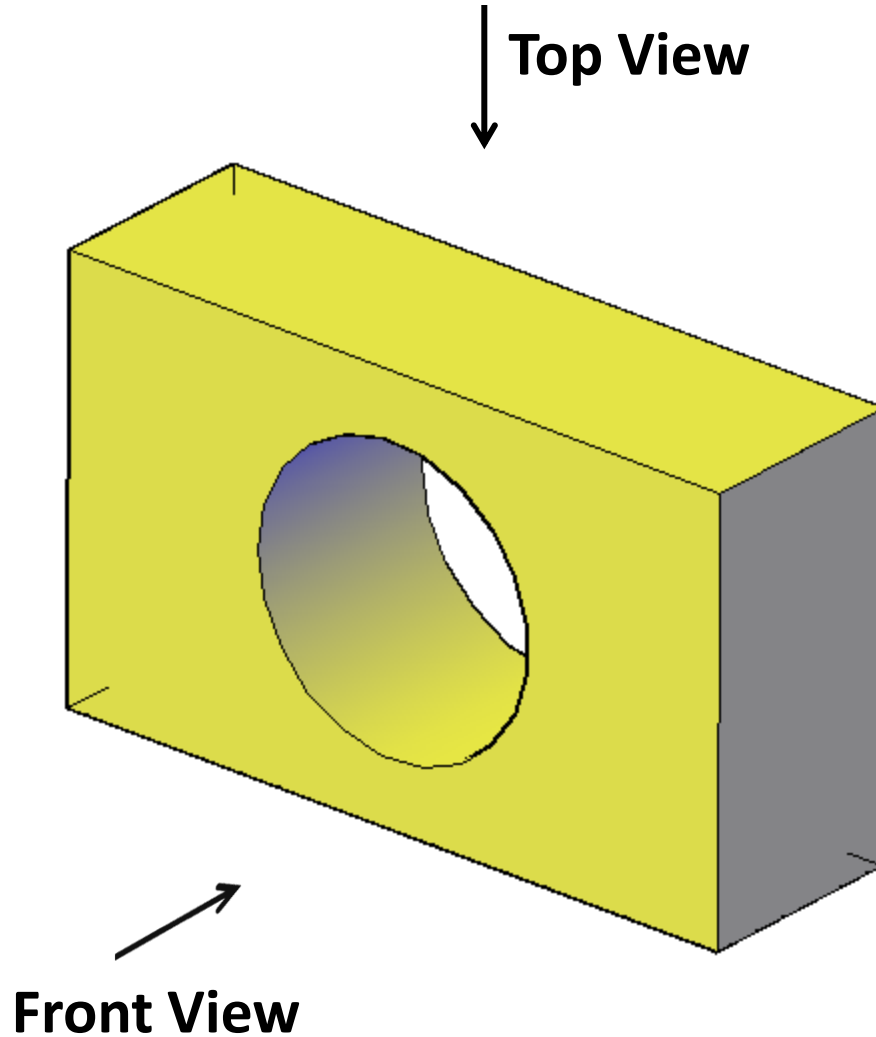


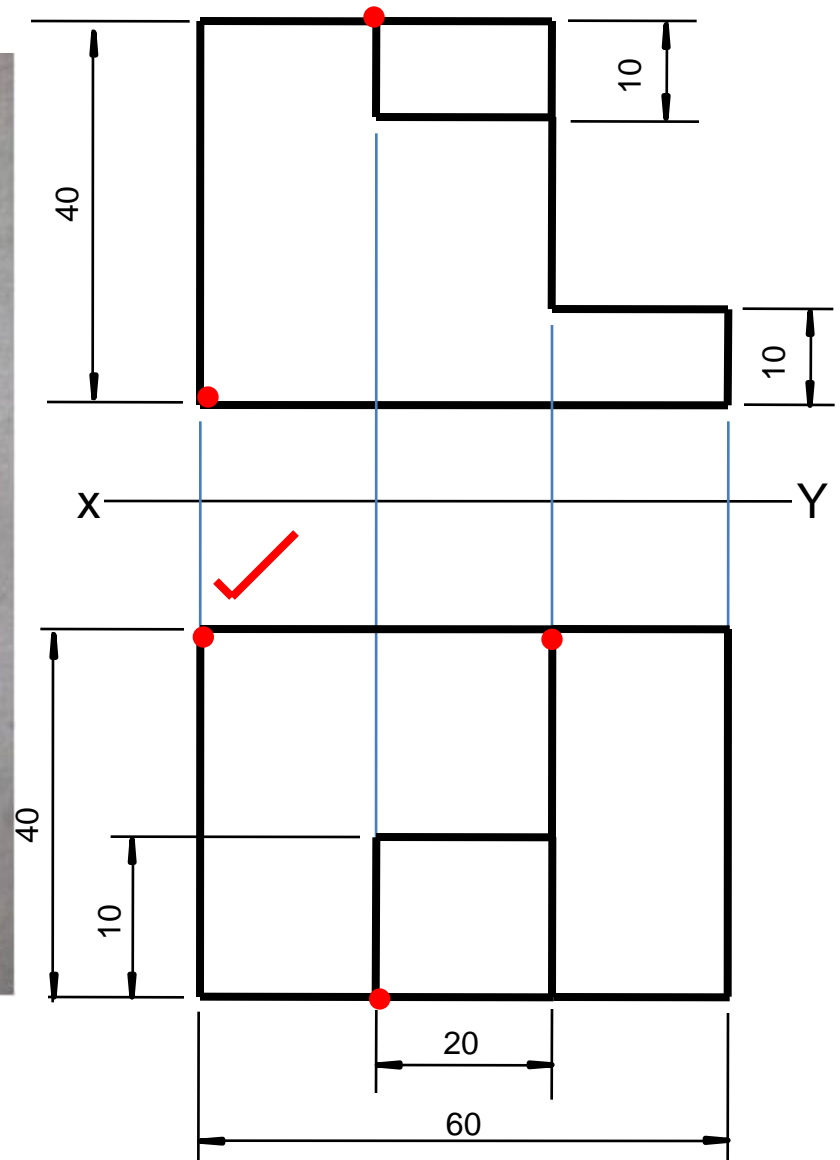
Front View



Rear View

Representation of holes





Thanks