

Lecture 5

ORTHOGRAPHIC PROJECTIONS :: LINE WORK & BASICS



TA 101 : Engineering Graphics

2007-08 Semester II

January – May 2008

OUTLINE

- Line styles
- Making the orthographic views



LINE STYLES

- Lines drawn
 - Boundaries of object
 - Meeting of surfaces of object

- Five types of line styles used

- Visible lines



- Hidden lines



- Centerlines



- Dimension lines

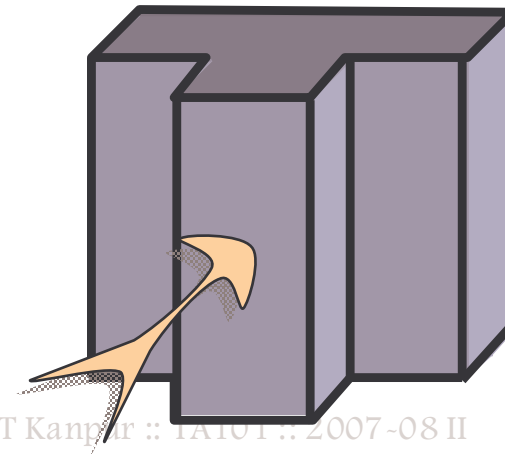
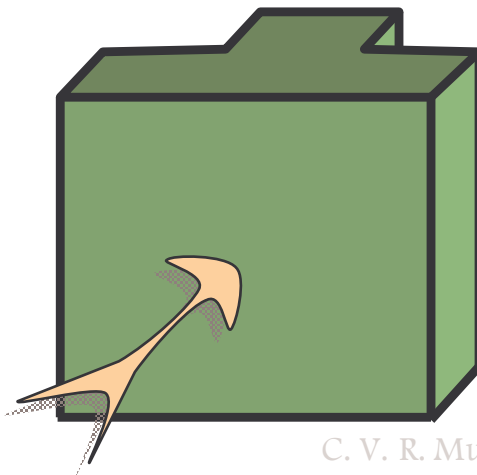
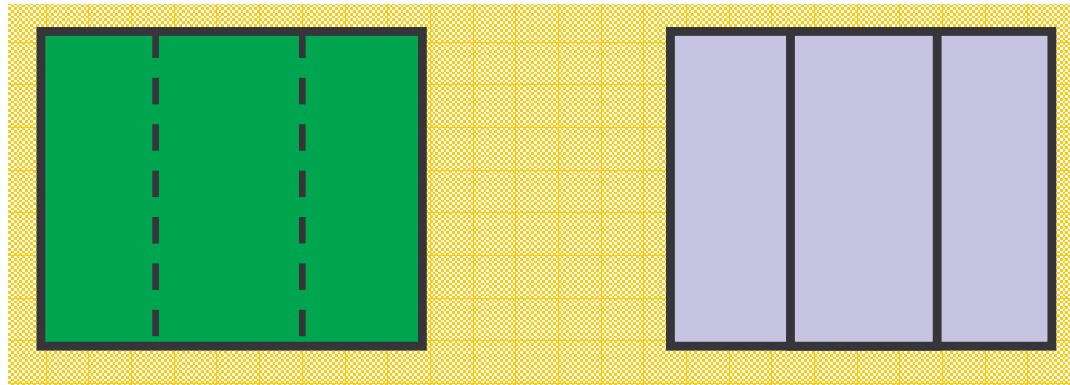


- Construction lines



- Visible & Hidden lines
 - Boundaries

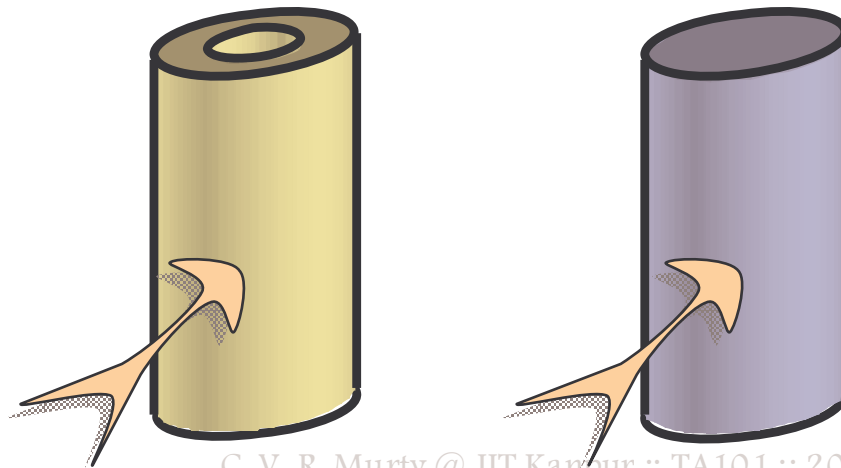
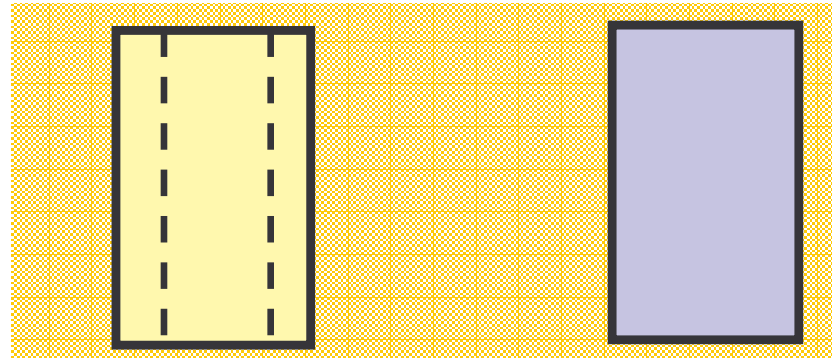
Orthographic View



- Visible & Hidden lines

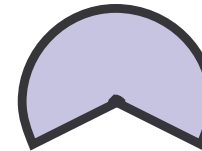
- Boundaries

Orthographic View

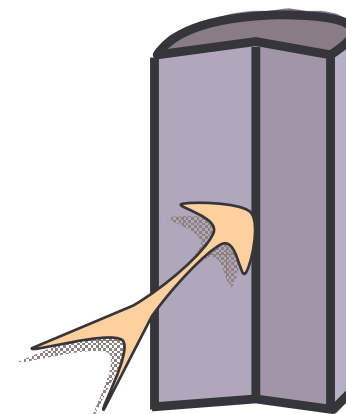
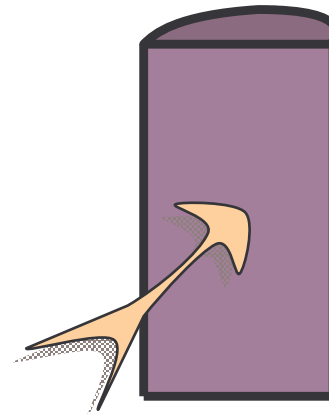
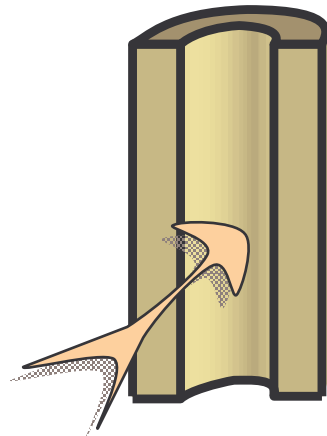
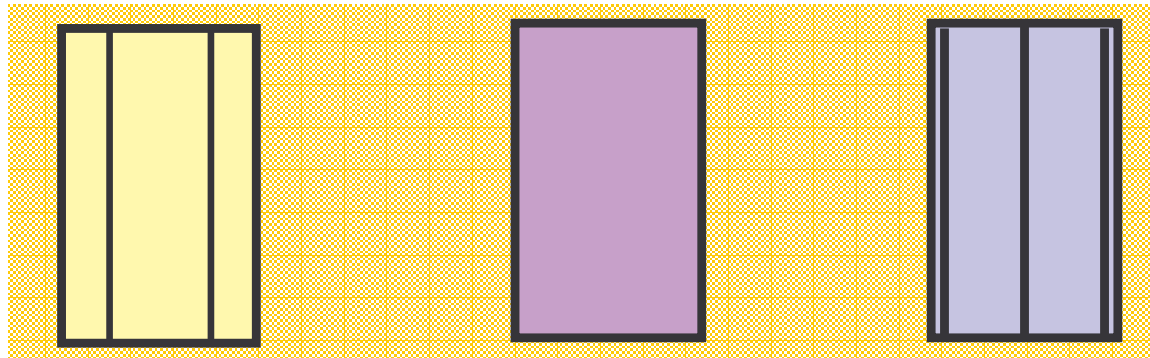


LINES

- Visible & Hidden lines
 - Surfaces meet

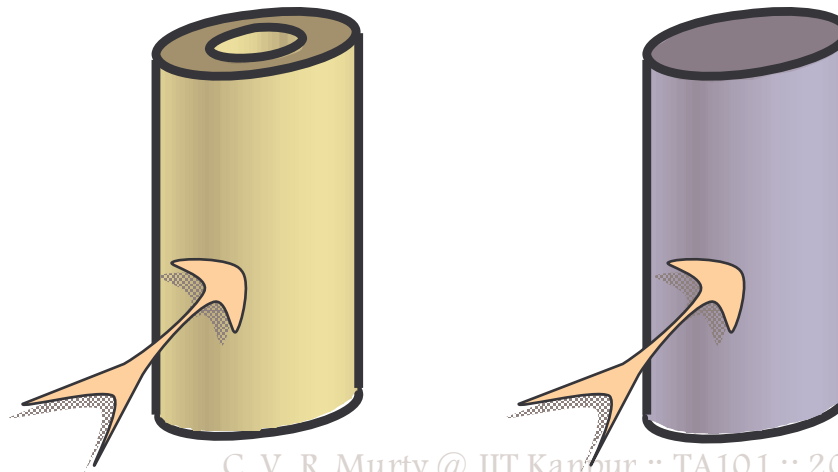
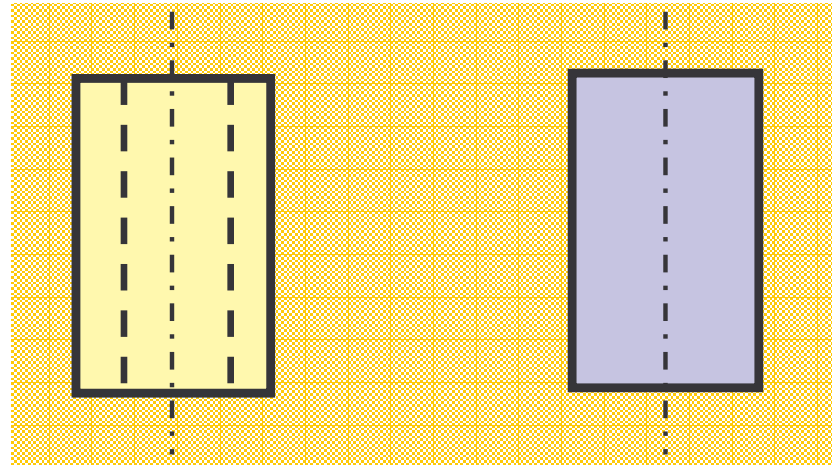


Orthographic View

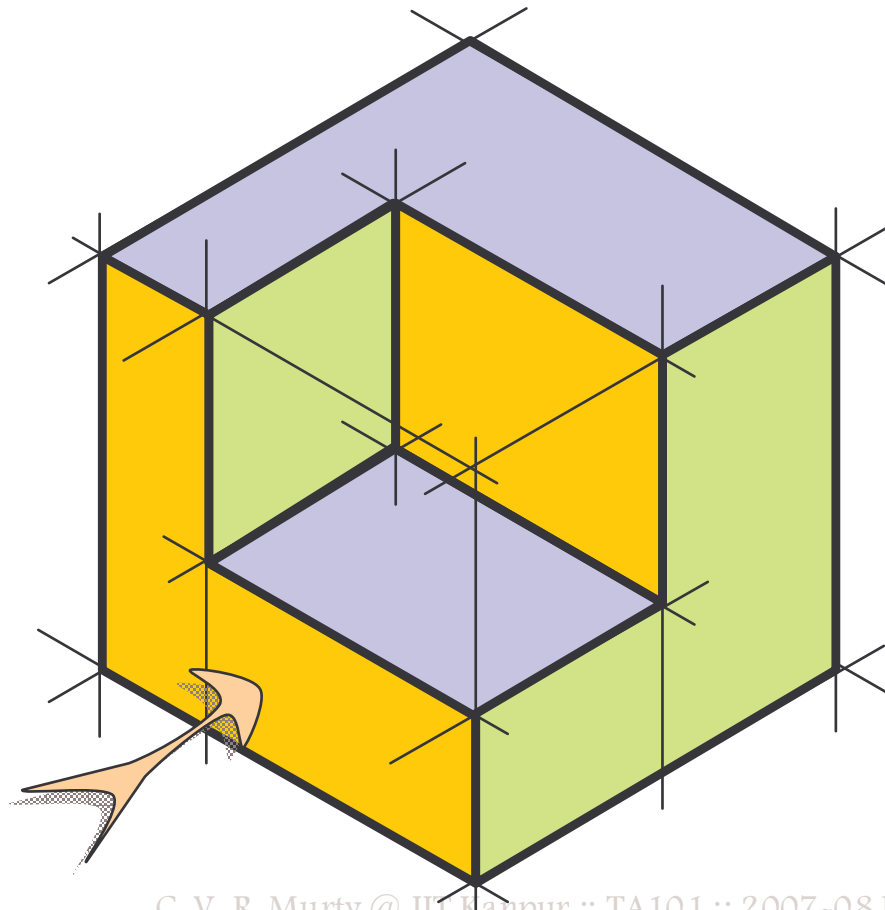


- Centerlines
 - Axial Symmetry

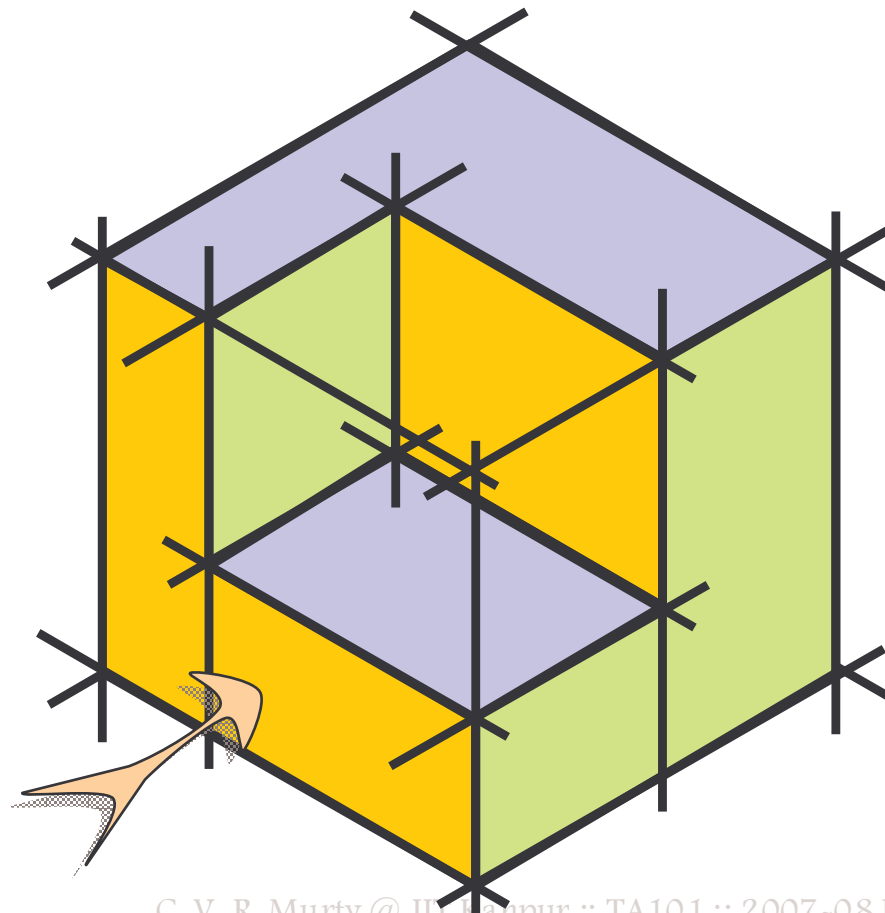
Orthographic View



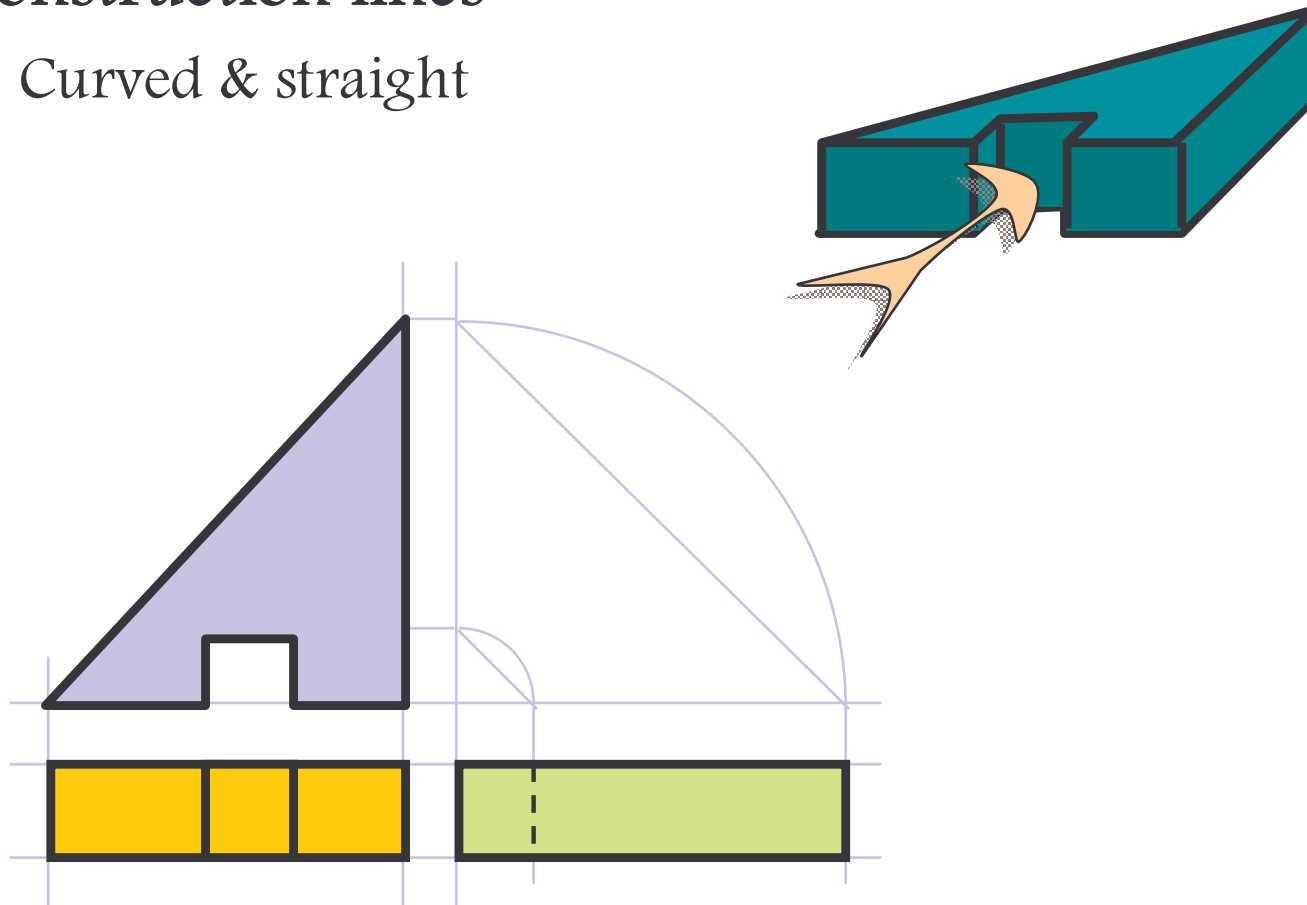
- Construction lines
 - Guide lines



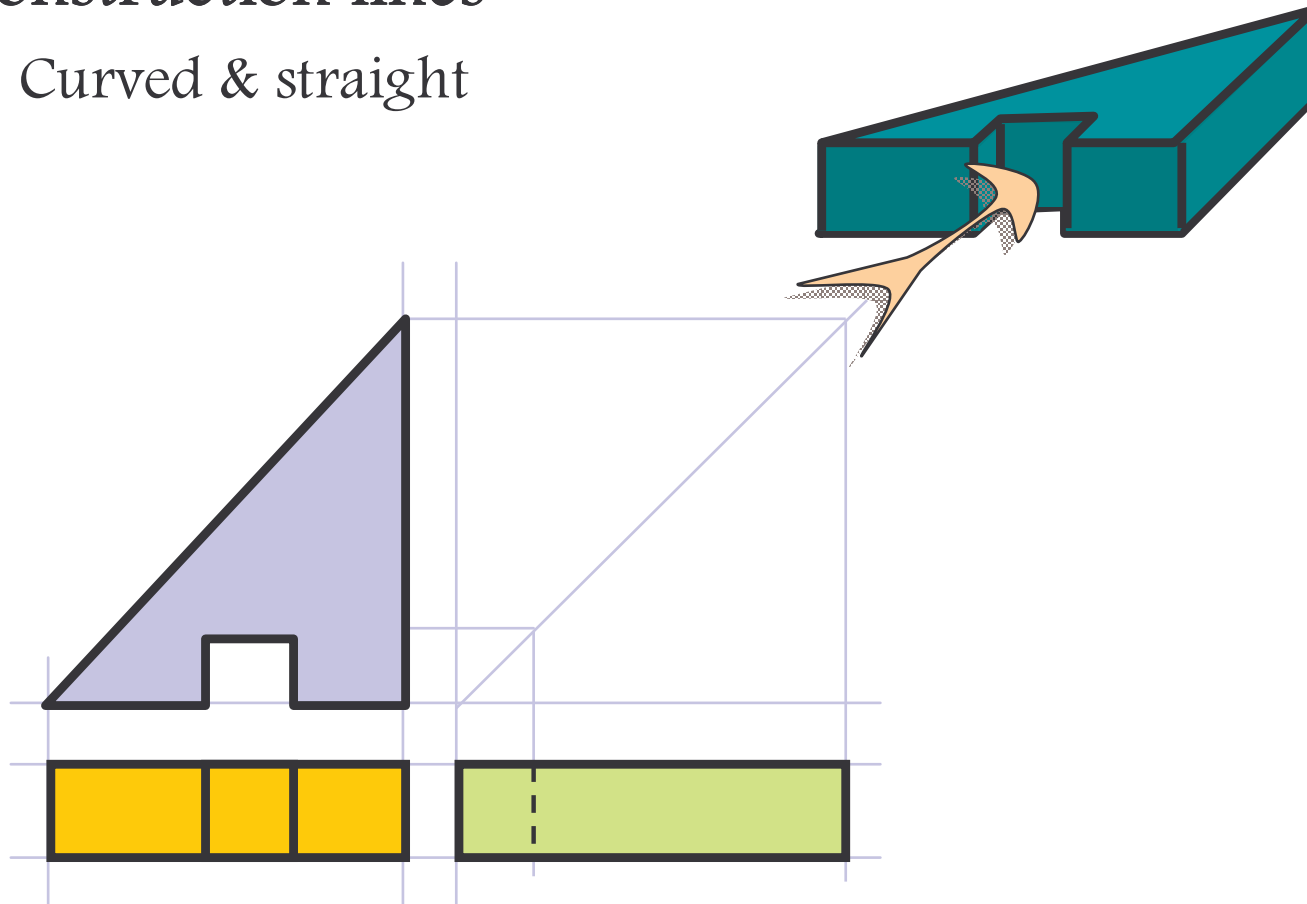
- Construction lines
 - Guide lines



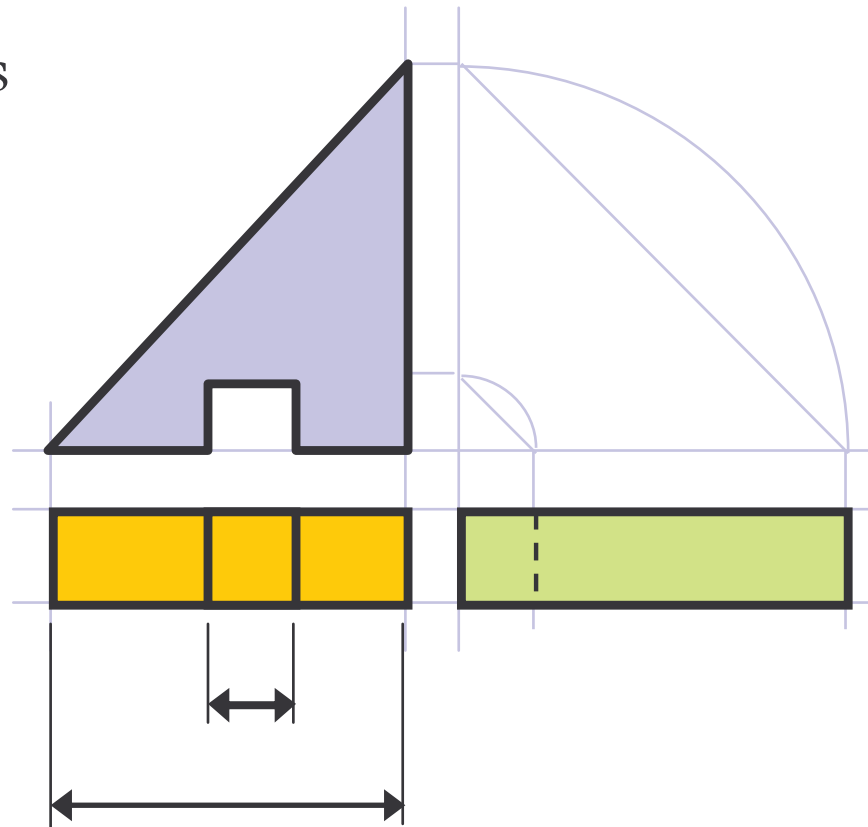
- Construction lines
 - Curved & straight



- Construction lines
 - Curved & straight



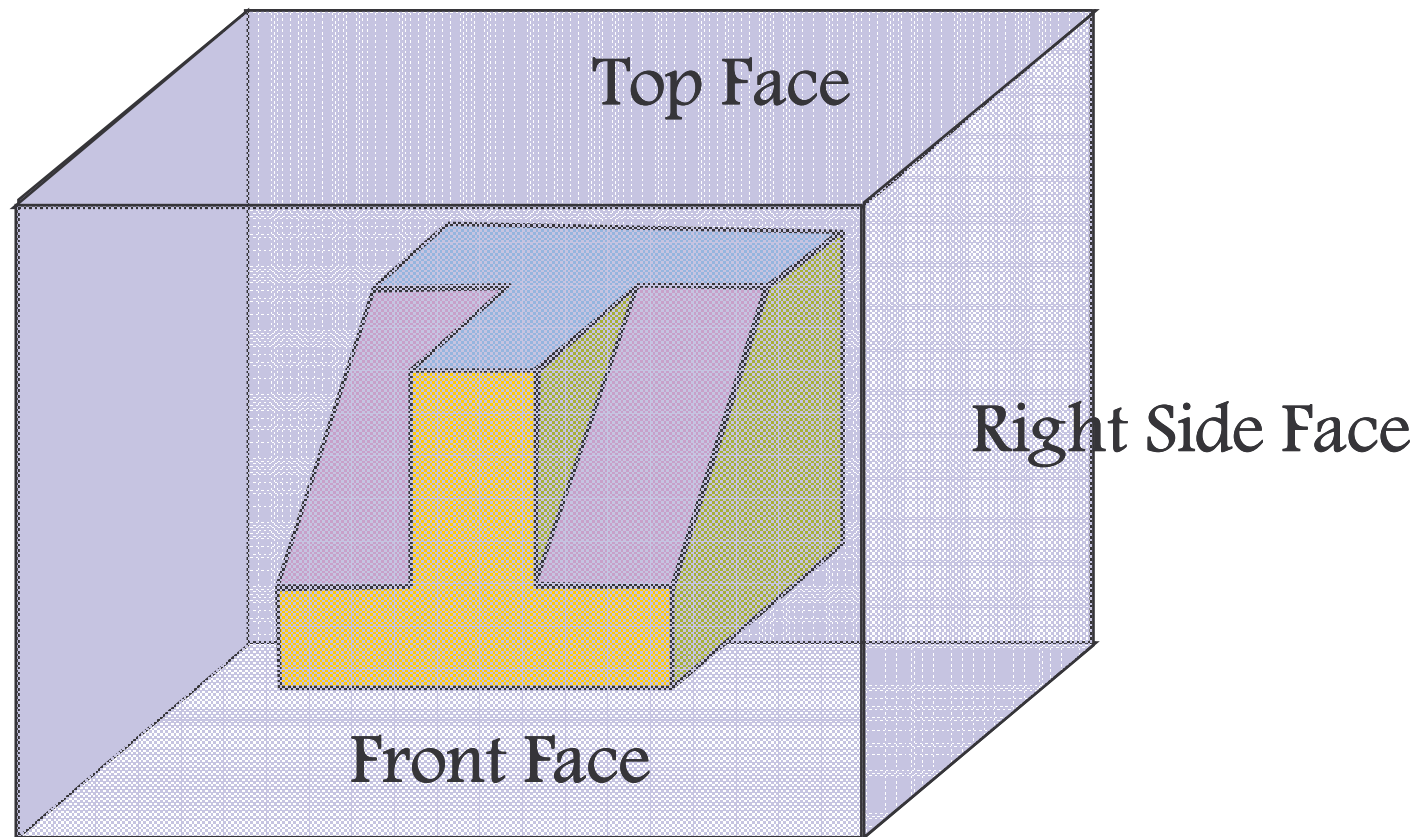
- Visible & Hidden lines
 - Dimension lines



MAKING THE
ORTHOGRAPHIC
VIEWS

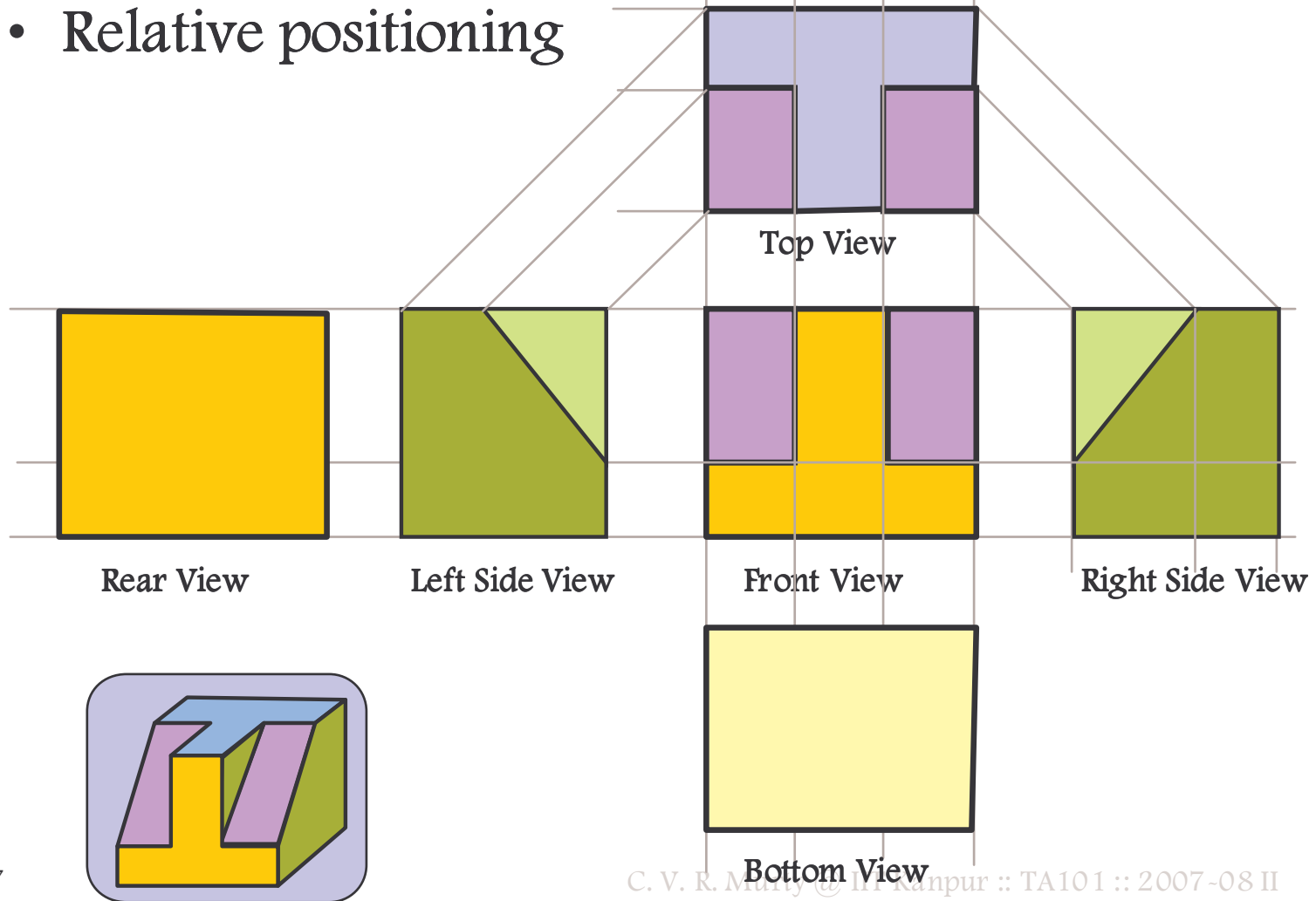
PROJECTING PLANES

- Viewing faces

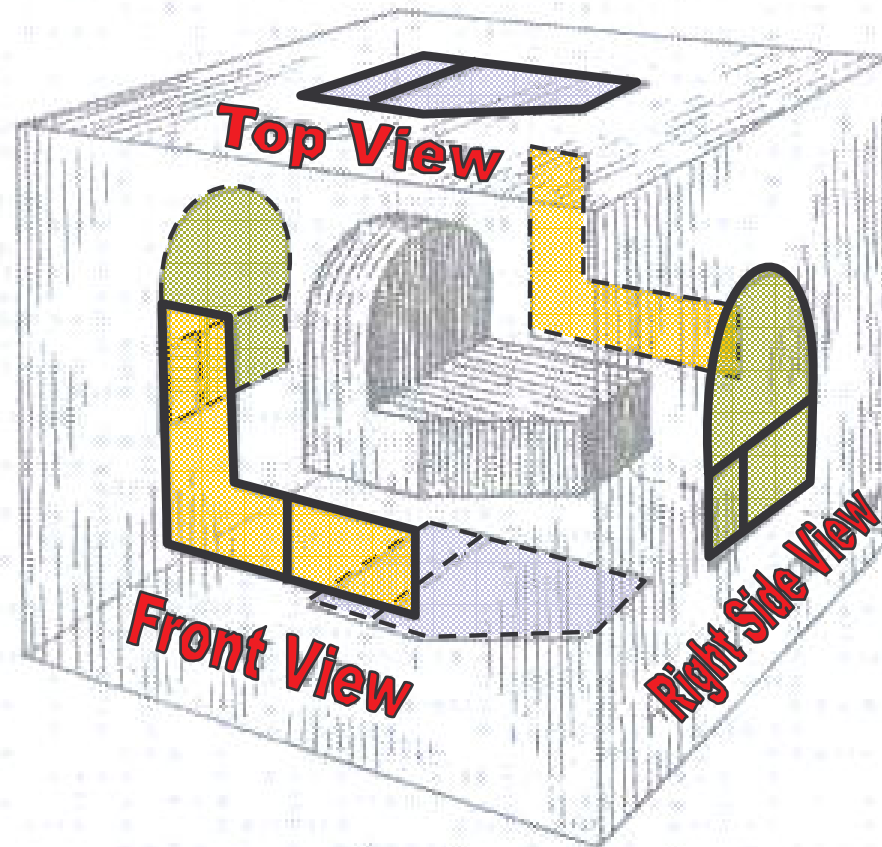


PROJECTING PLANES

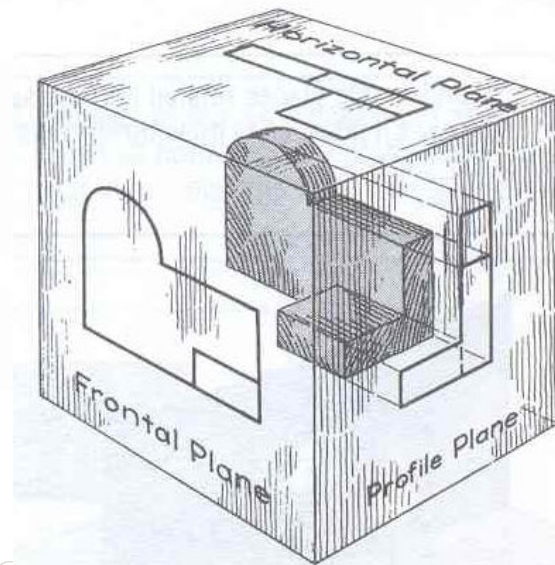
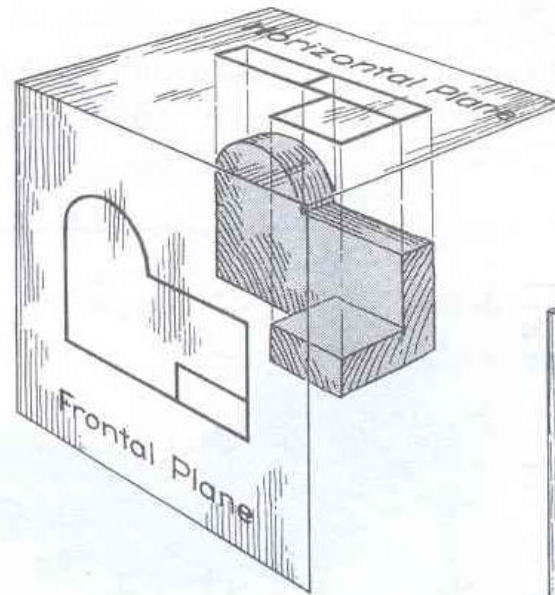
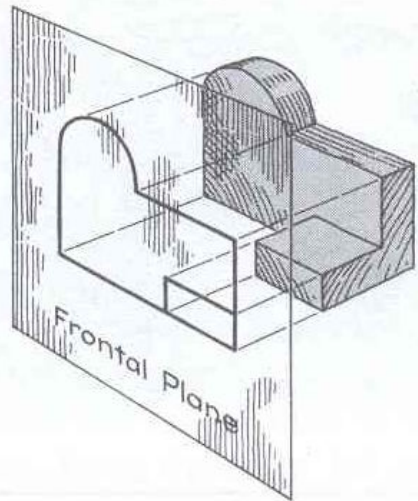
- Relative positioning



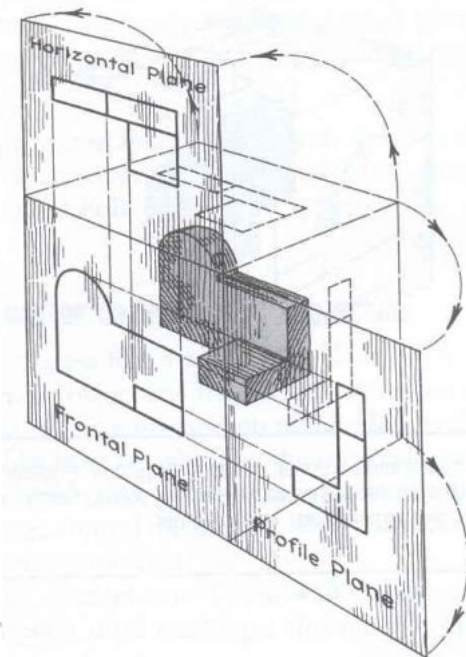
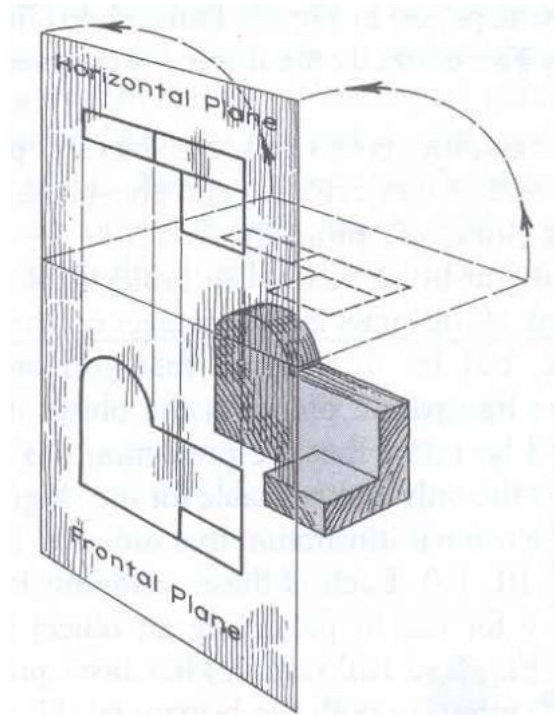
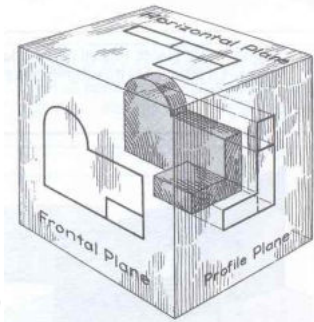
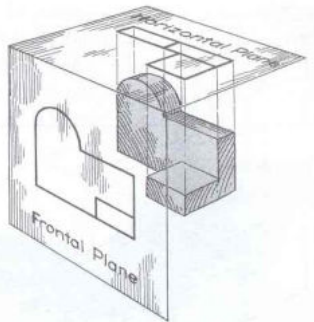
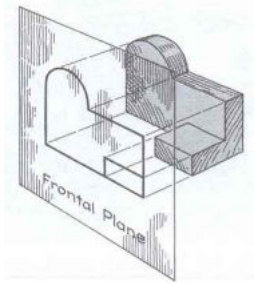
PROJECTING PLANES



PROJECTING PLANES



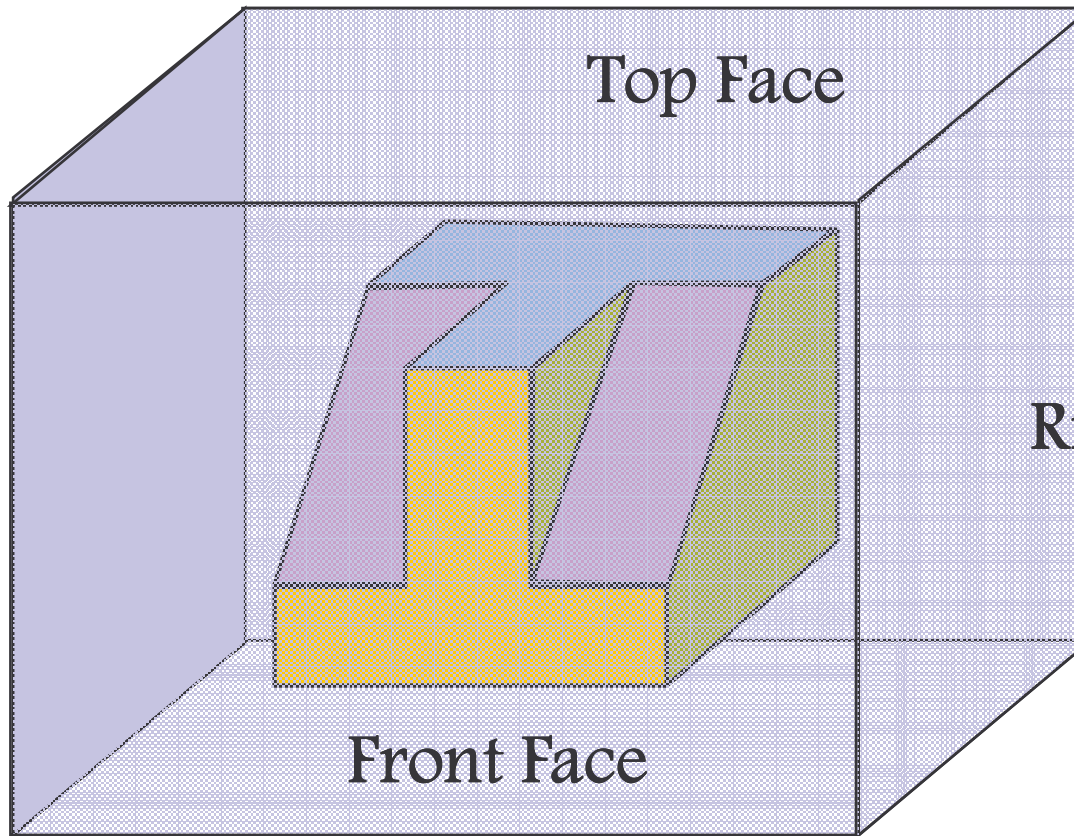
PROJECTING PLANES



PROJECTING PLANES

- Projecting Planes

Horizontal Plane



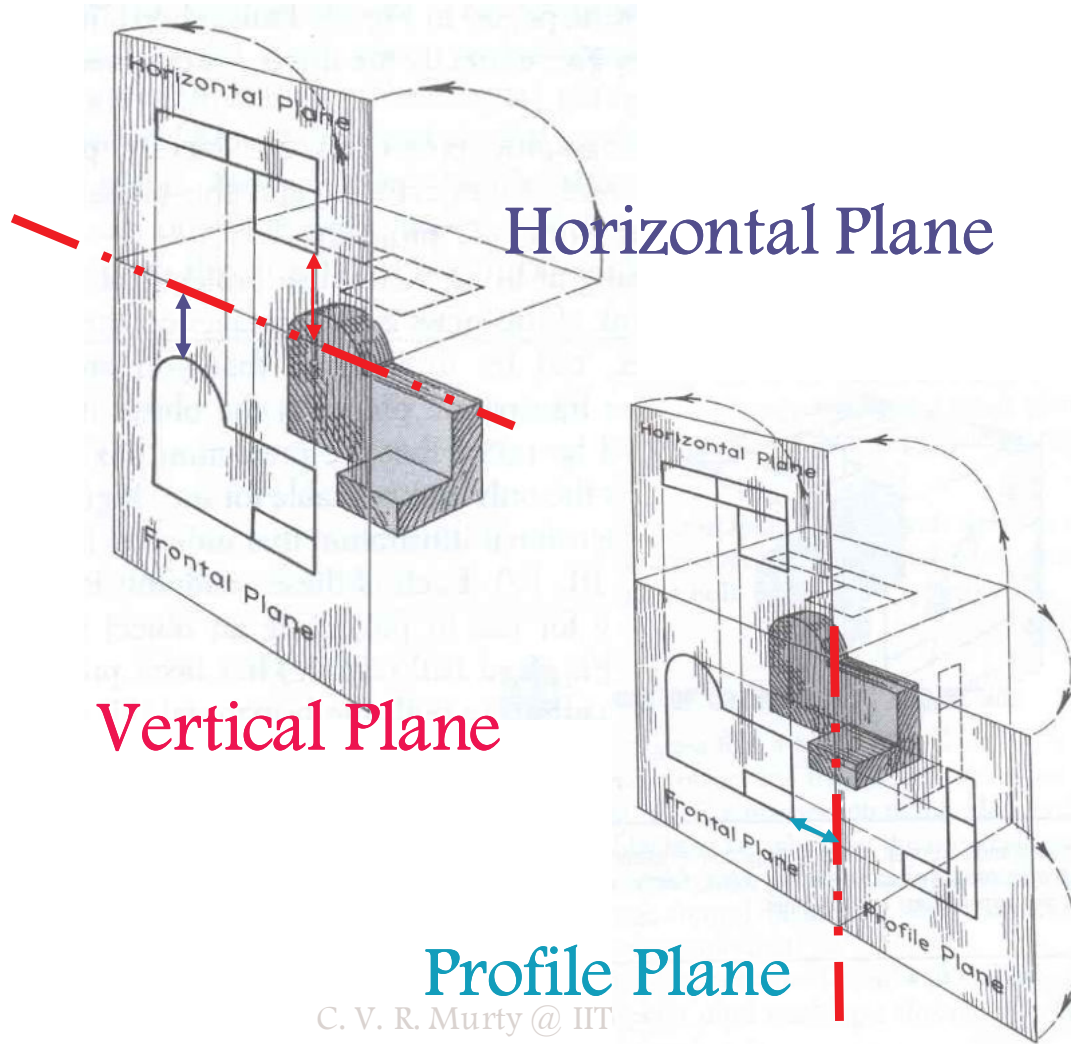
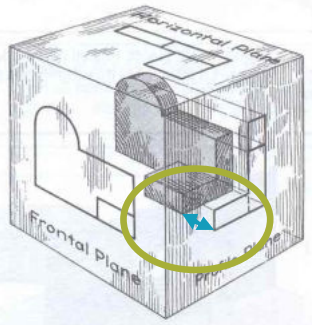
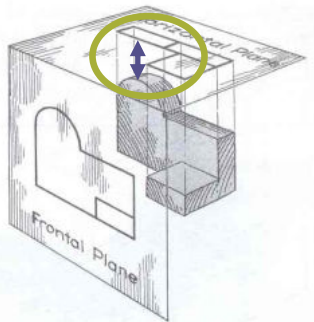
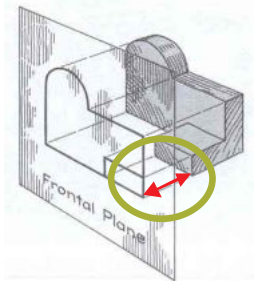
Right Side Face

Profile Plane

Front Face

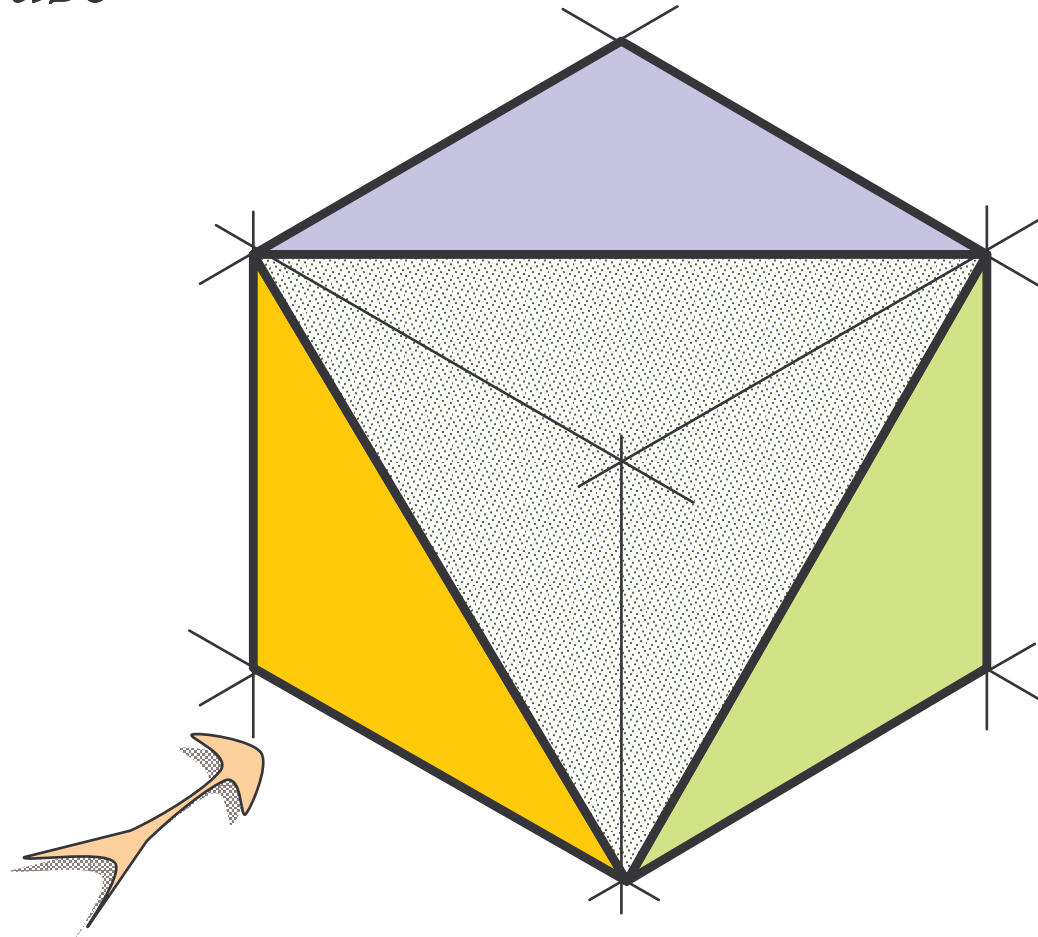
Vertical Plane

PROJECTING PLANES



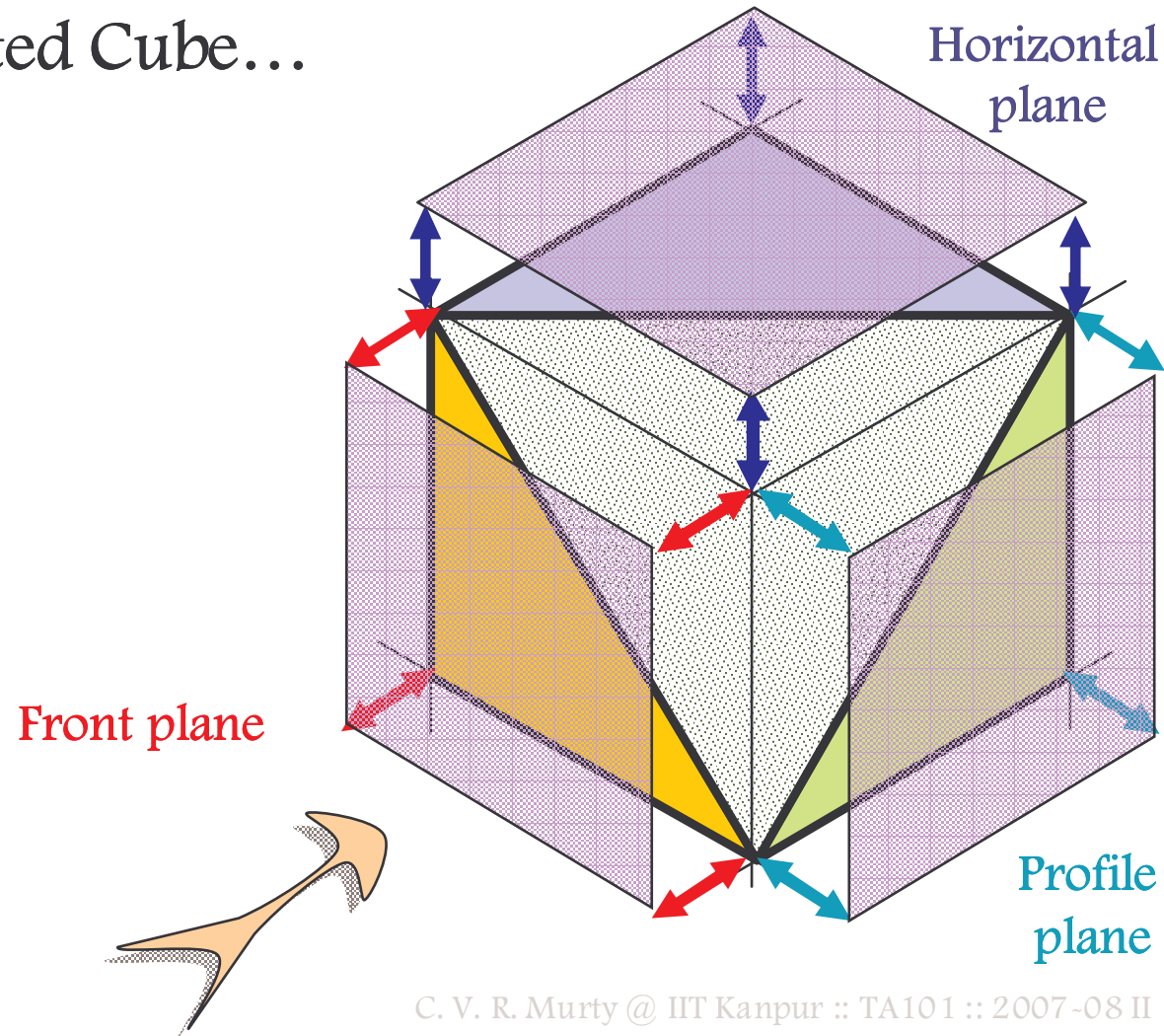
SIMPLE OBJECTS

- Truncated Cube



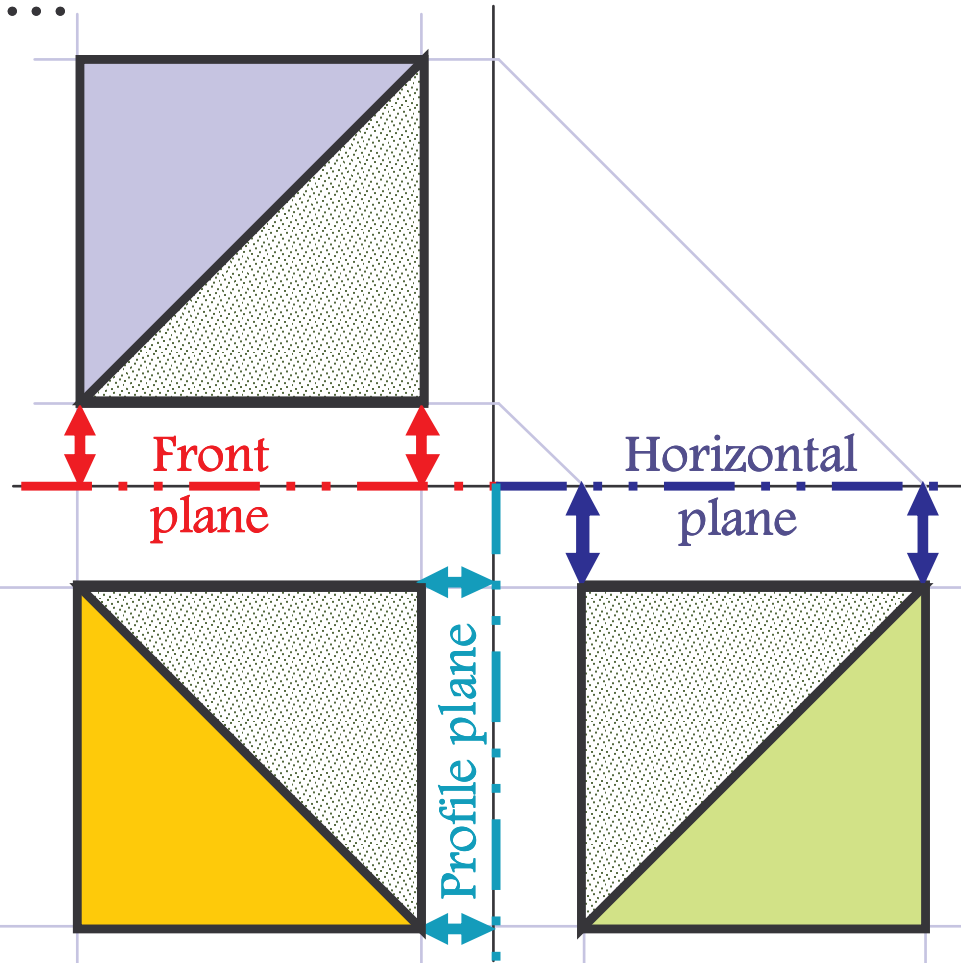
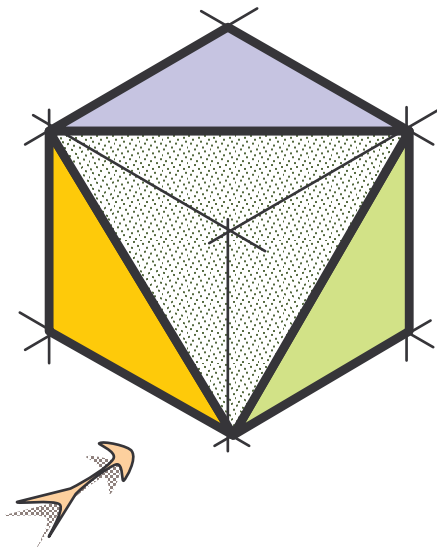
SIMPLE OBJECTS

- Truncated Cube...



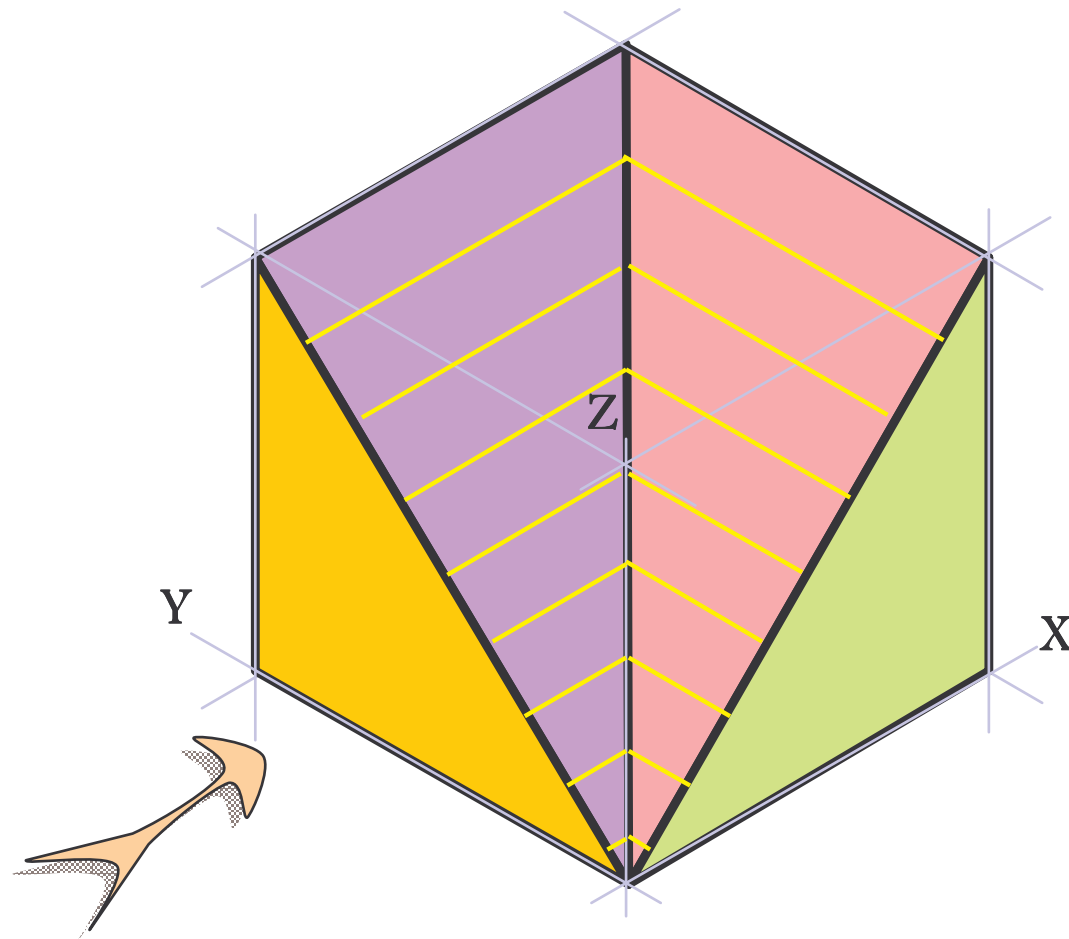
SIMPLE OBJECTS

- Truncated Cube...



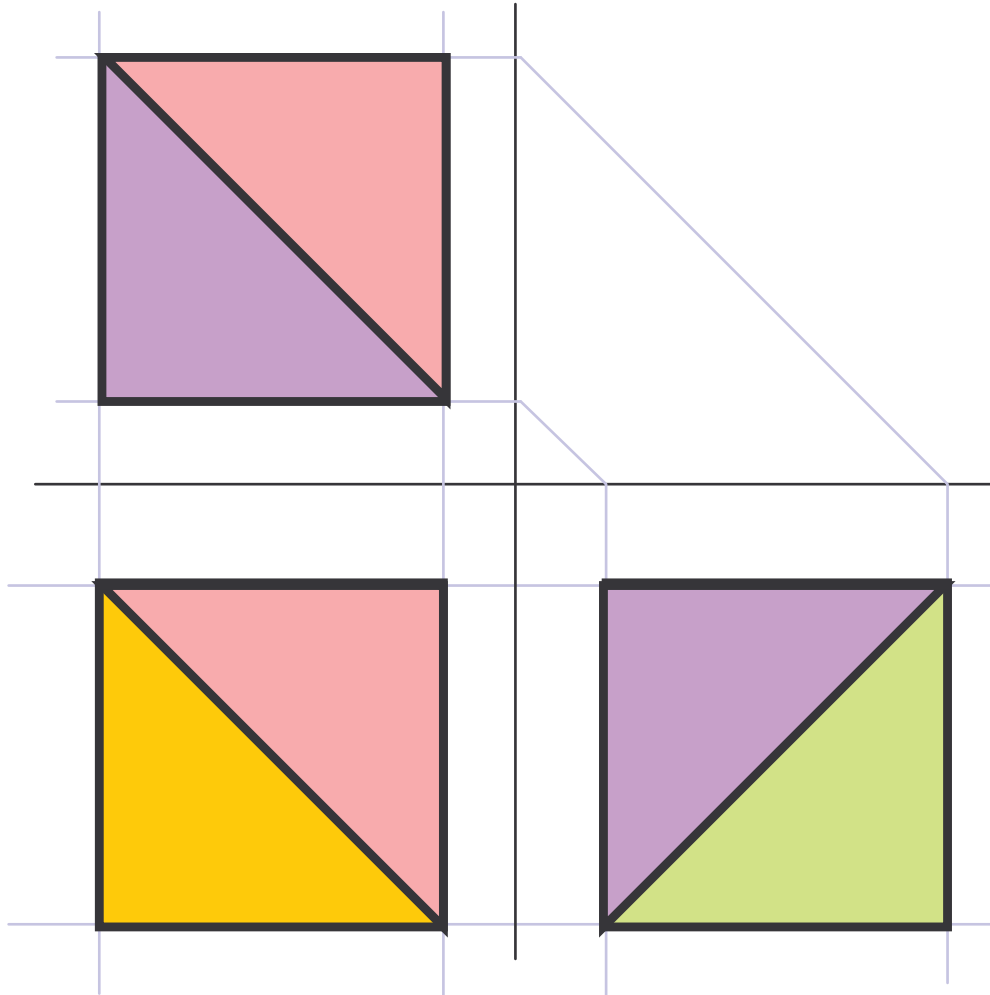
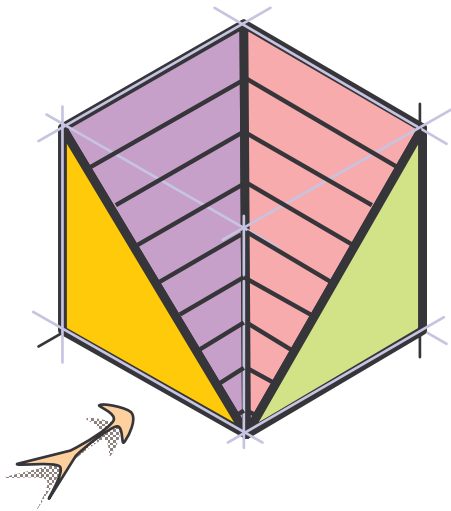
SIMPLE OBJECTS

- Sliced Cube



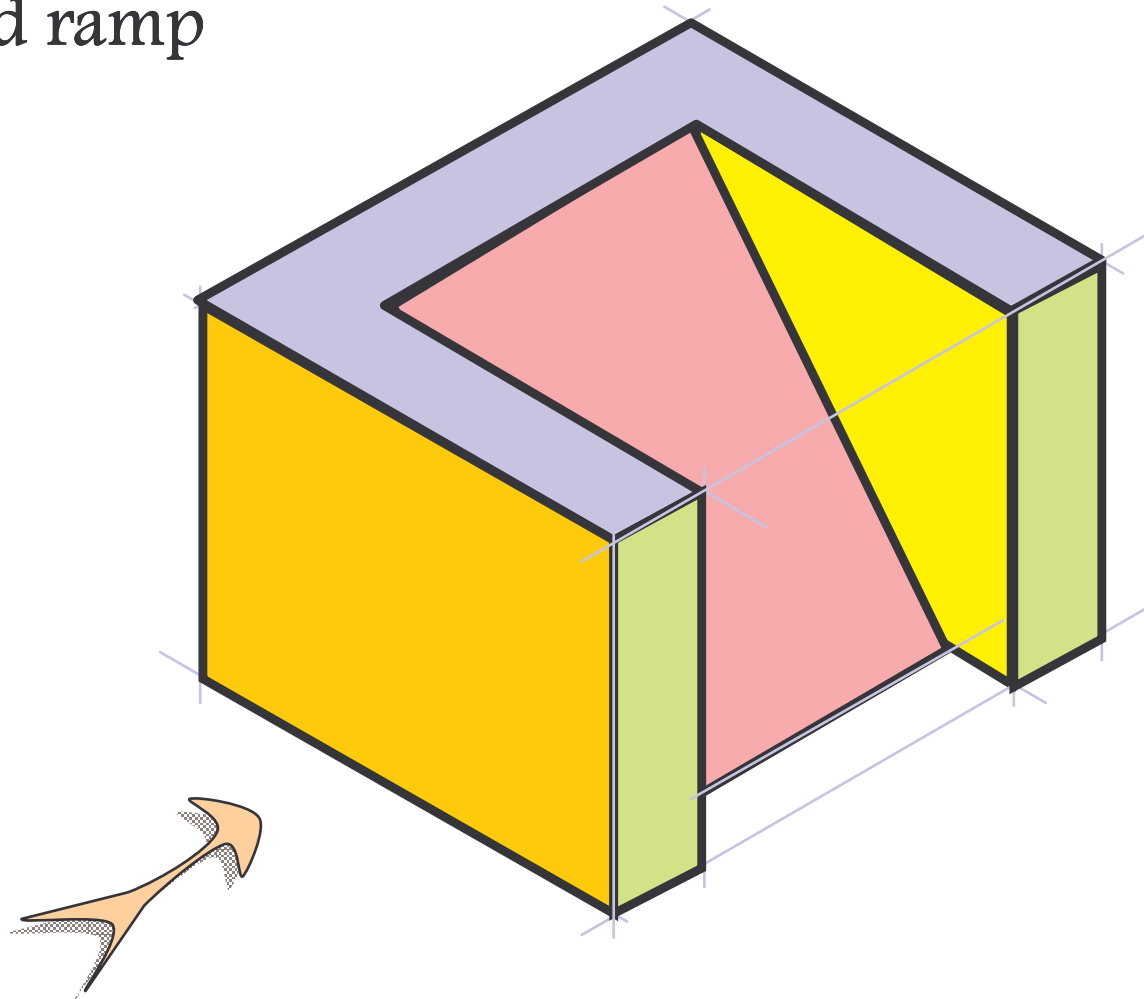
SIMPLE OBJECTS

- Sliced Cube...



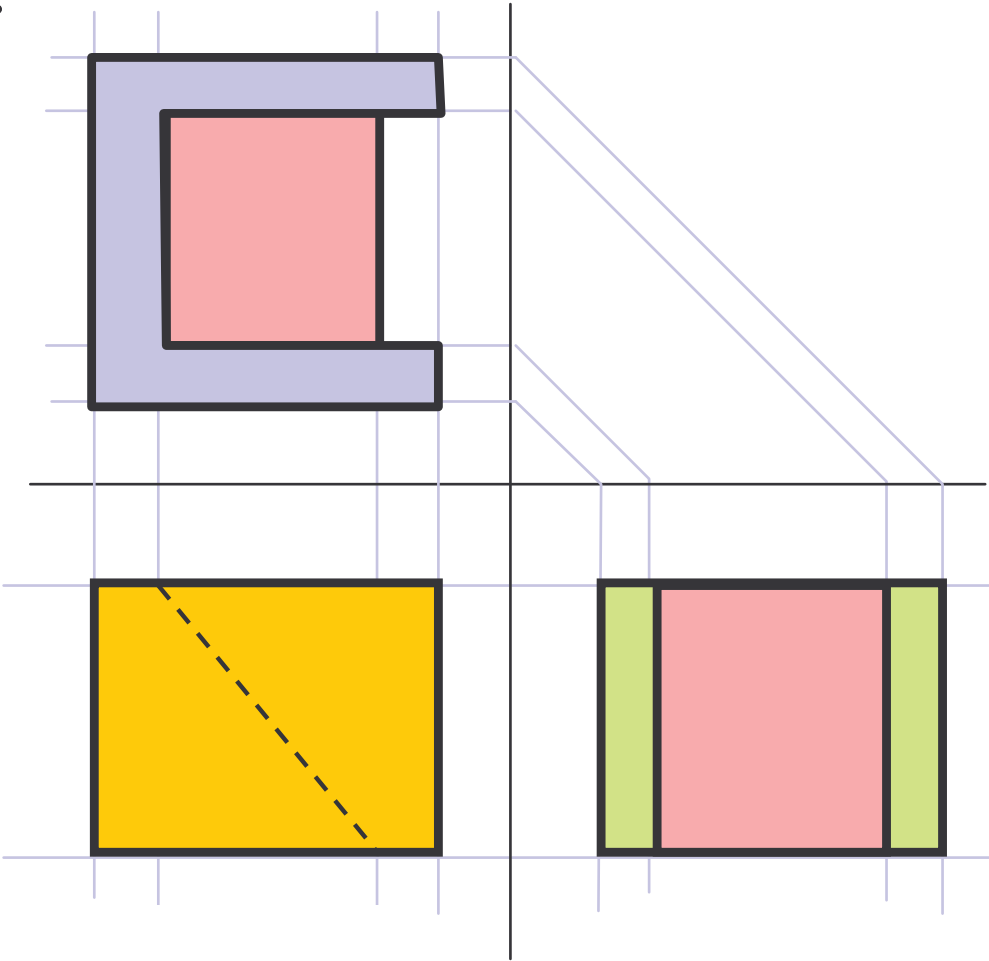
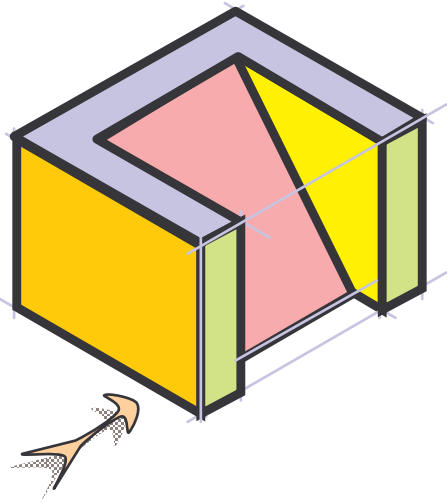
SIMPLE OBJECTS

- Guided ramp



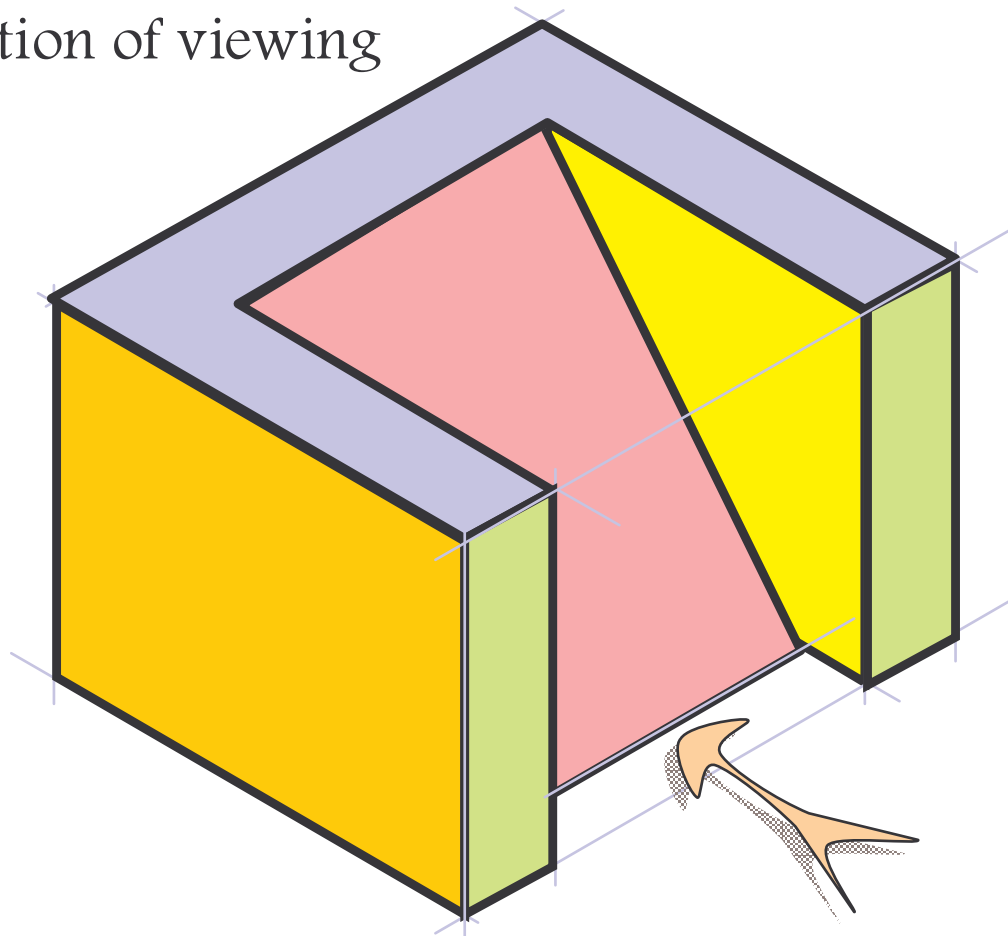
SIMPLE OBJECTS

- Guided ramp...



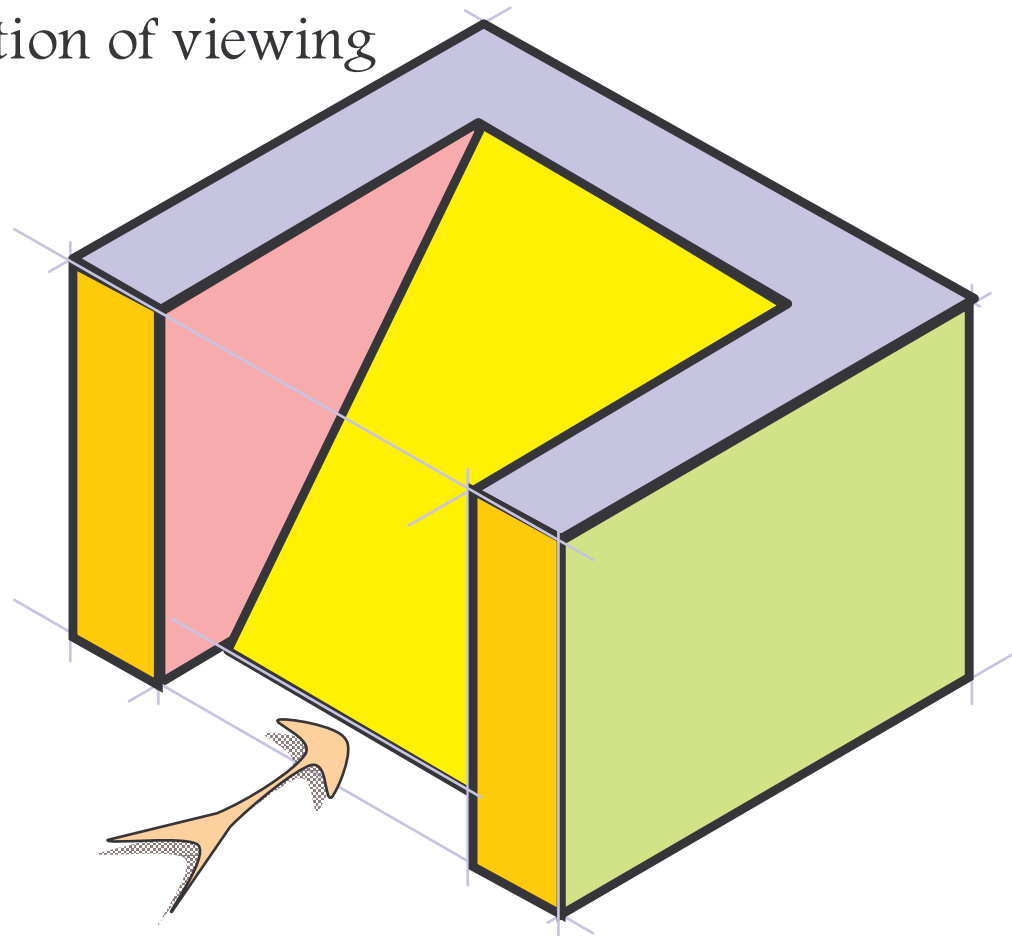
SIMPLE OBJECTS

- Guided ramp
 - Different direction of viewing



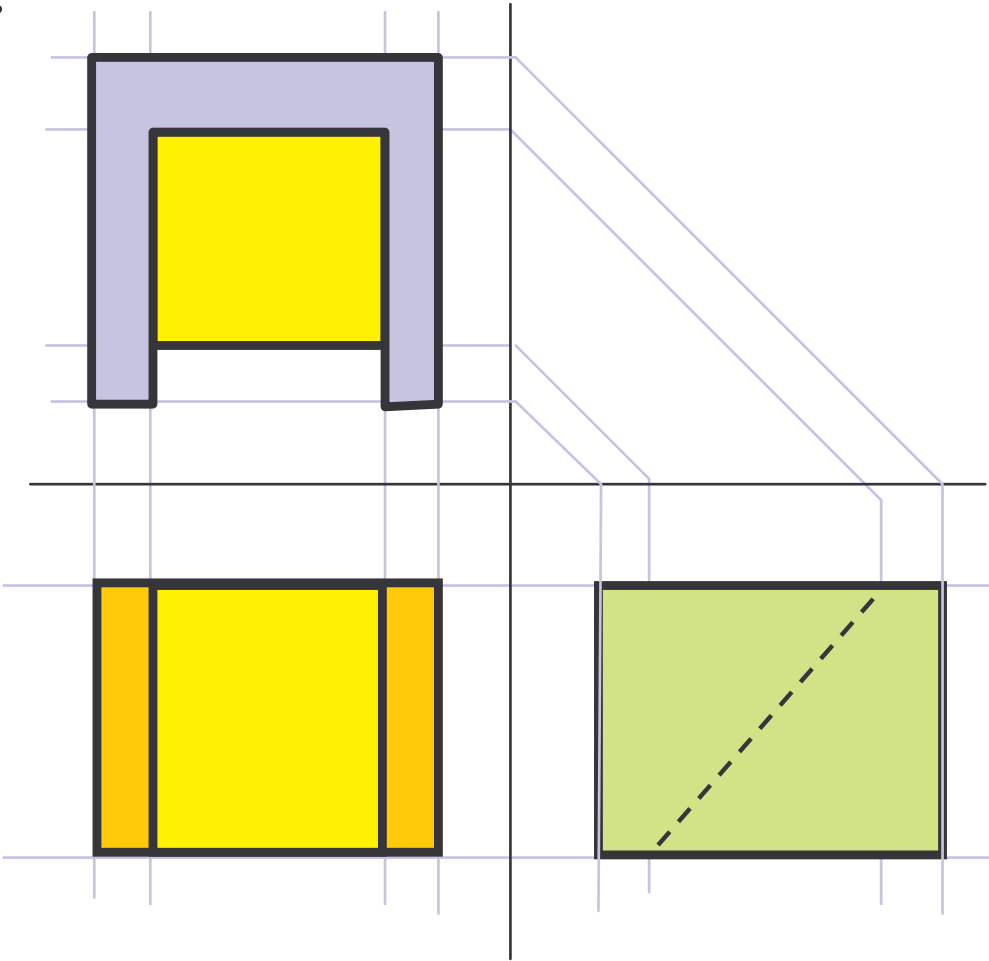
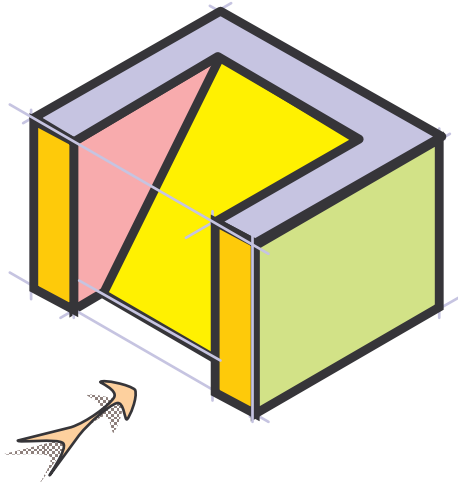
SIMPLE OBJECTS

- Guided ramp...
 - Different direction of viewing



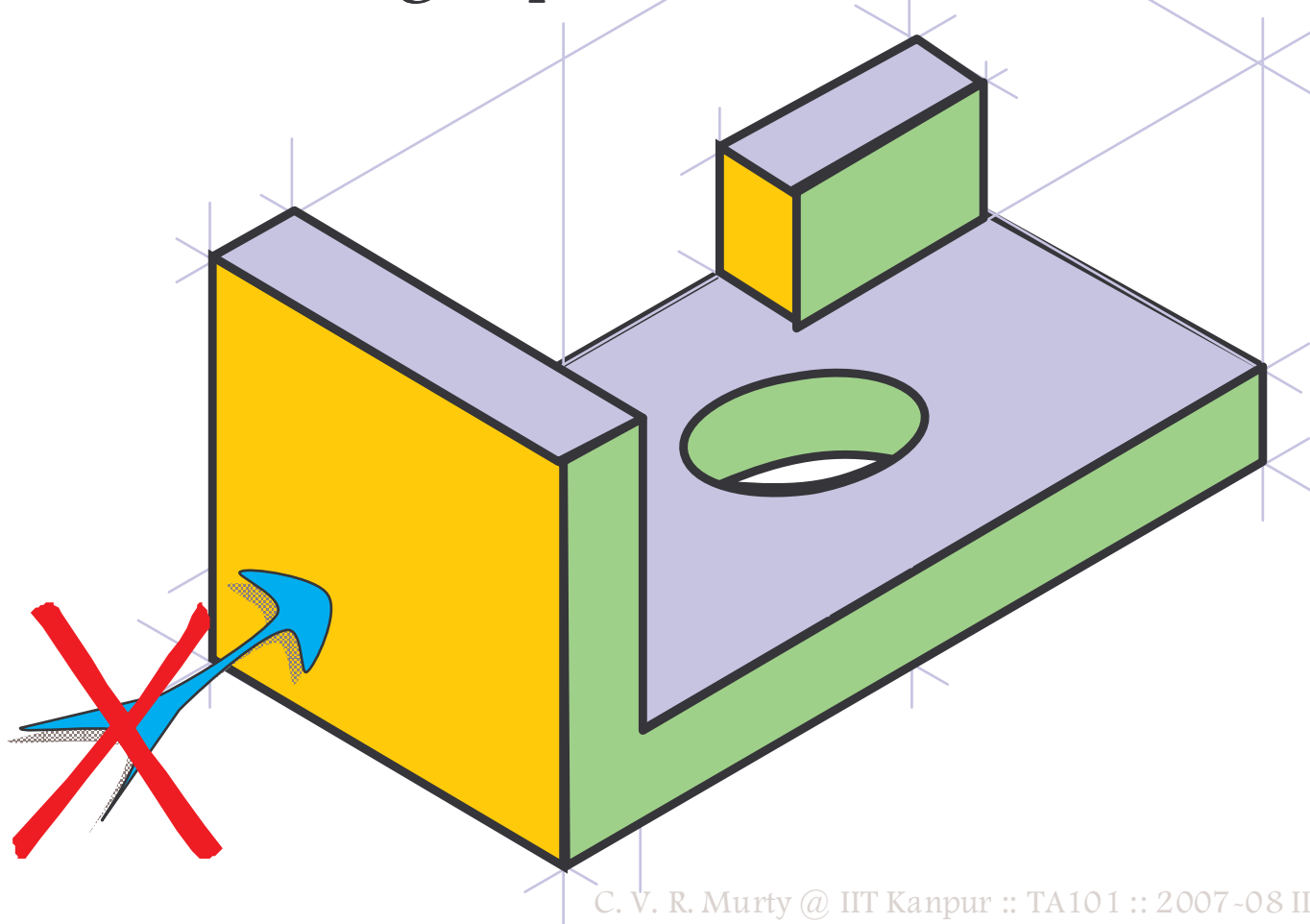
SIMPLE OBJECTS

- Guided ramp...



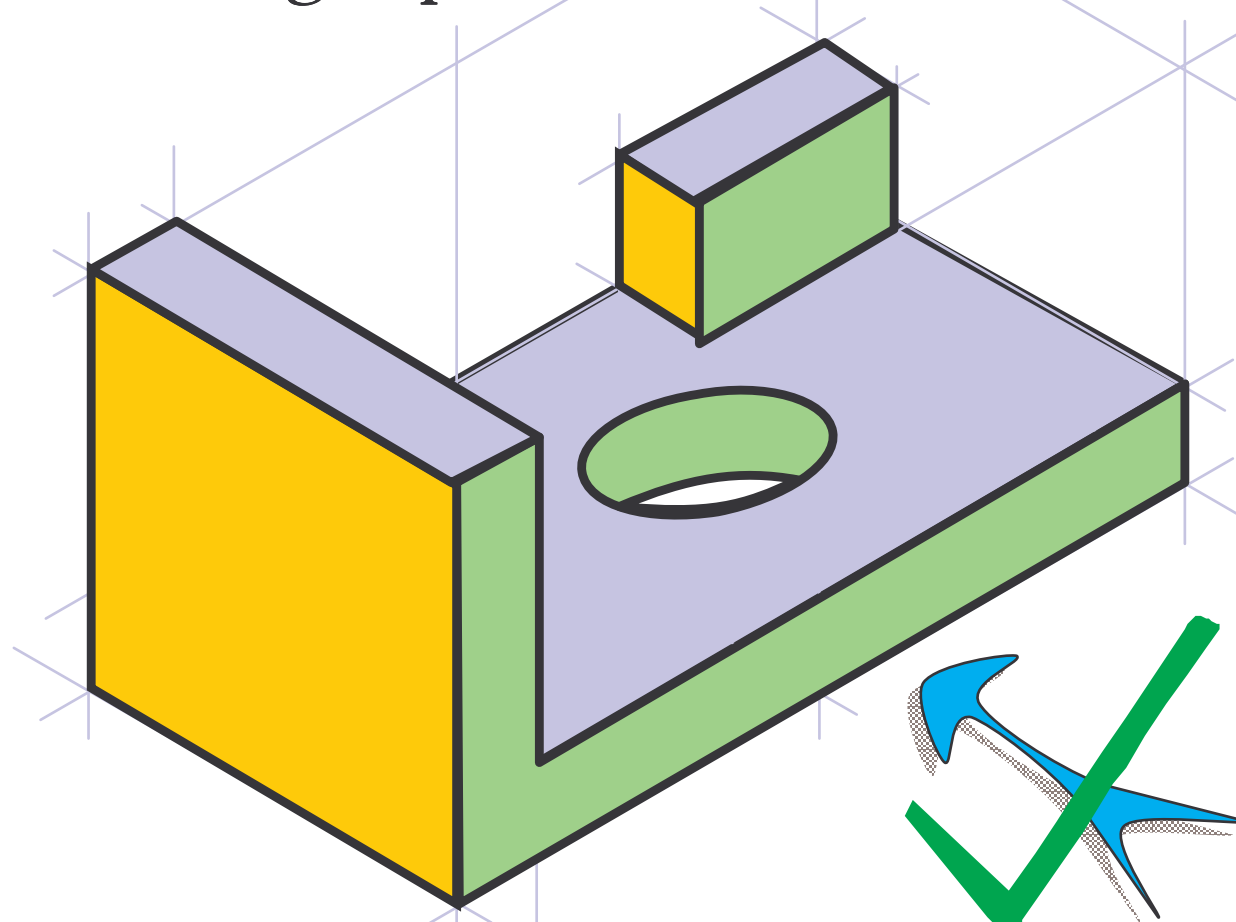
SIMPLE OBJECTS

- Bracket with high lip



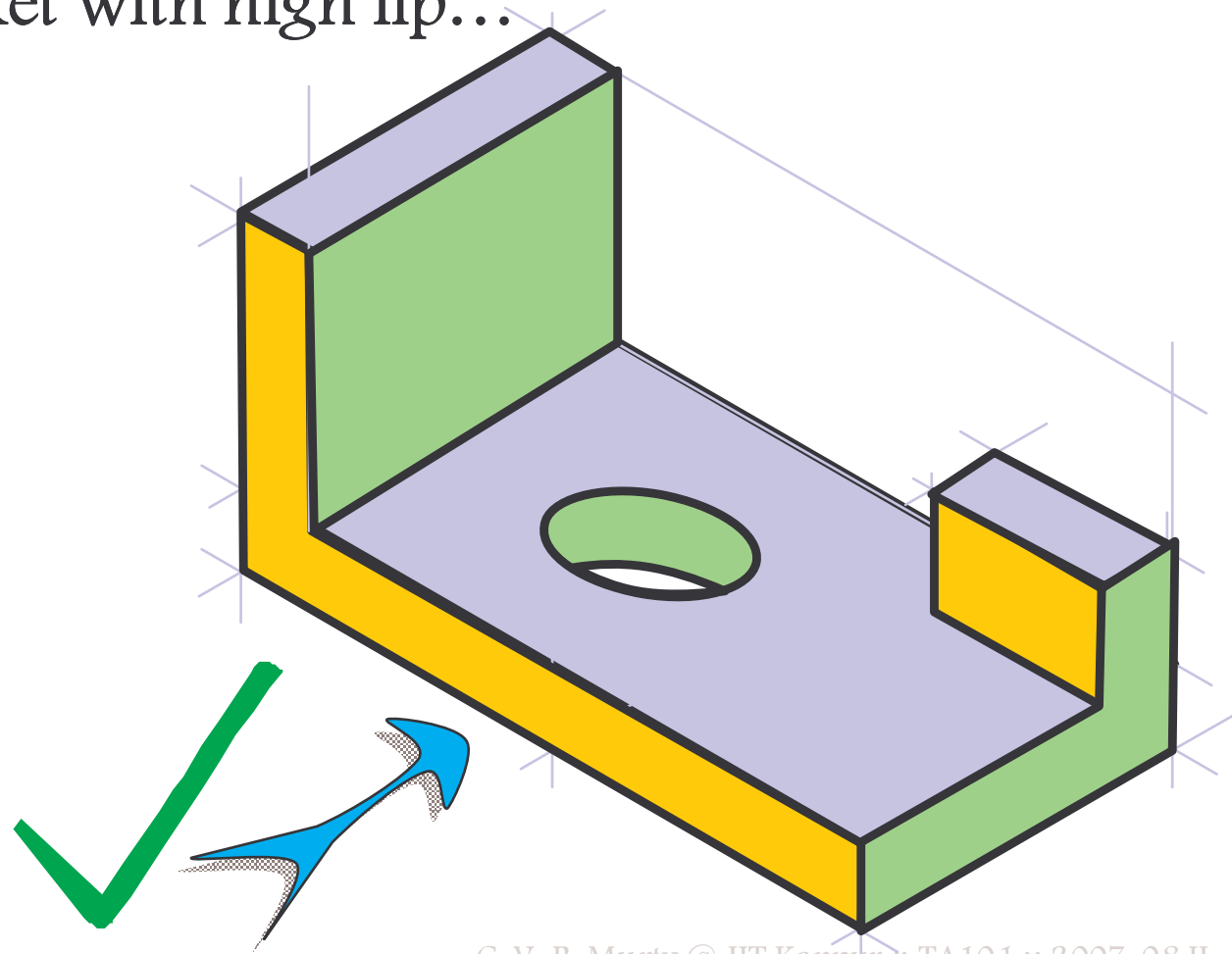
SIMPLE OBJECTS

- Bracket with high lip...



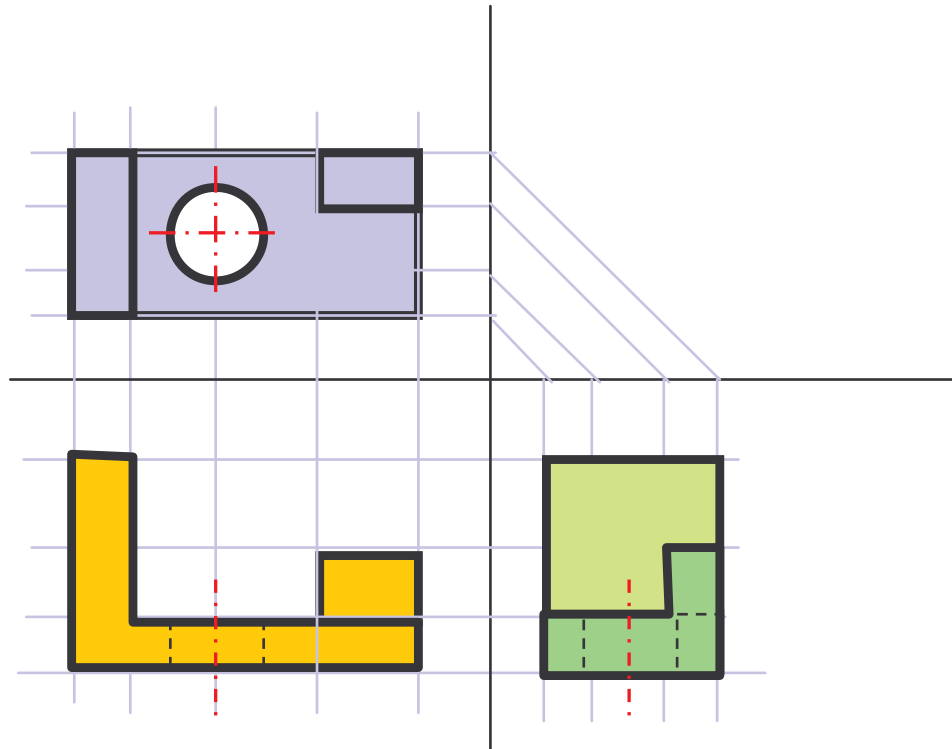
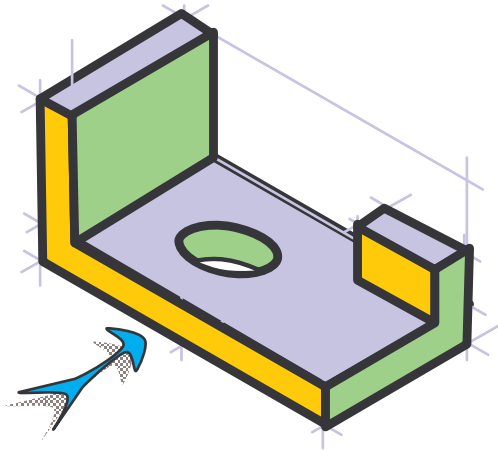
SIMPLE OBJECTS

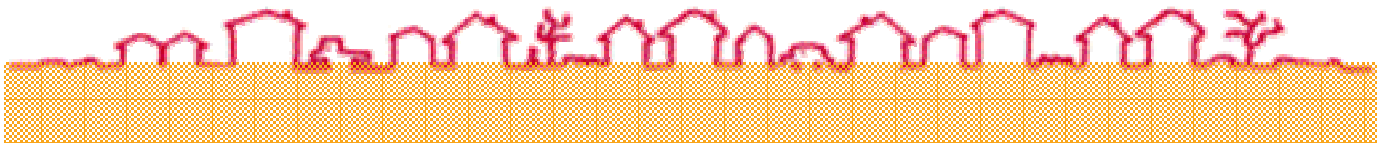
- Bracket with high lip...



SIMPLE OBJECTS

- Bracket with high lip...





Have a Great Day!!