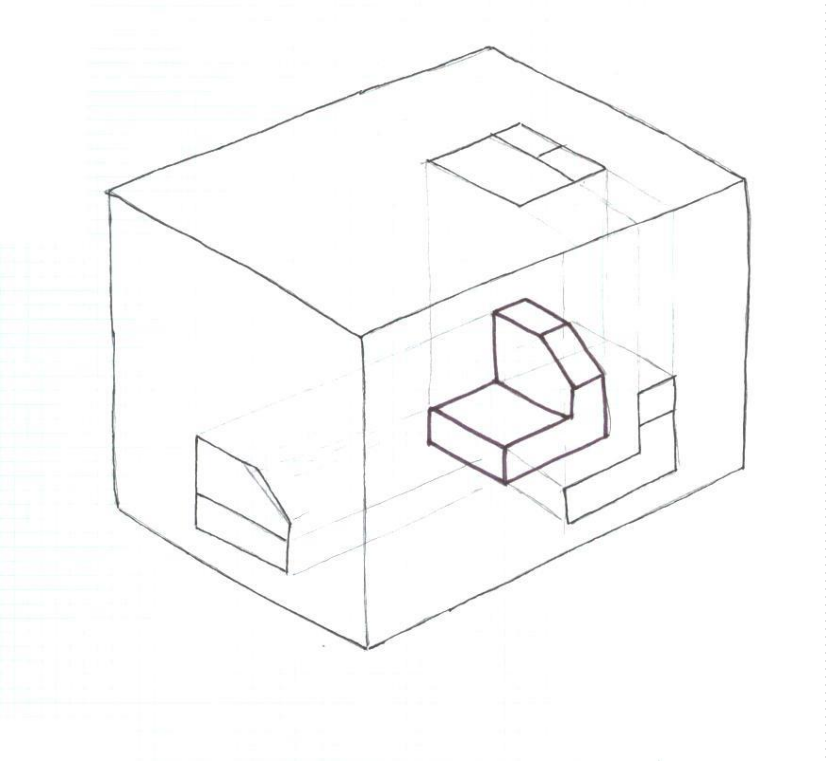
Technical Graphics:

Multi-view drawing
Standard Practice
Conventional Practice

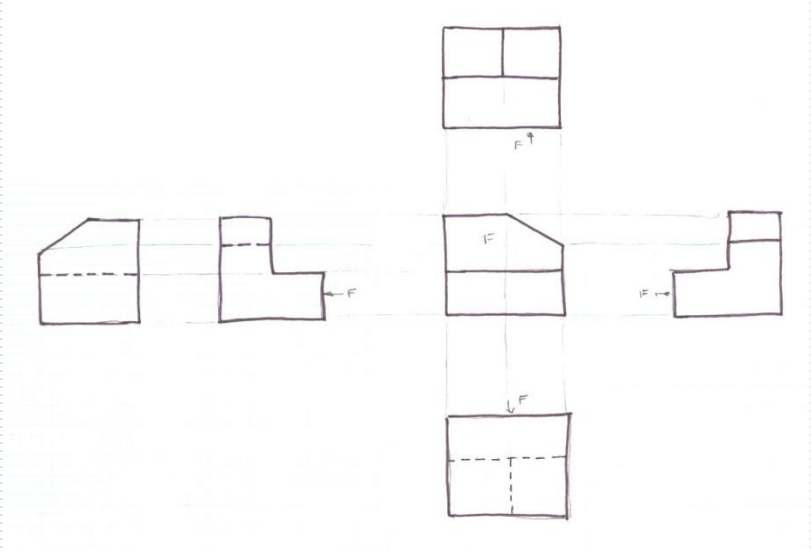
Pictorial to Multi-view

- Visualize
- Projection



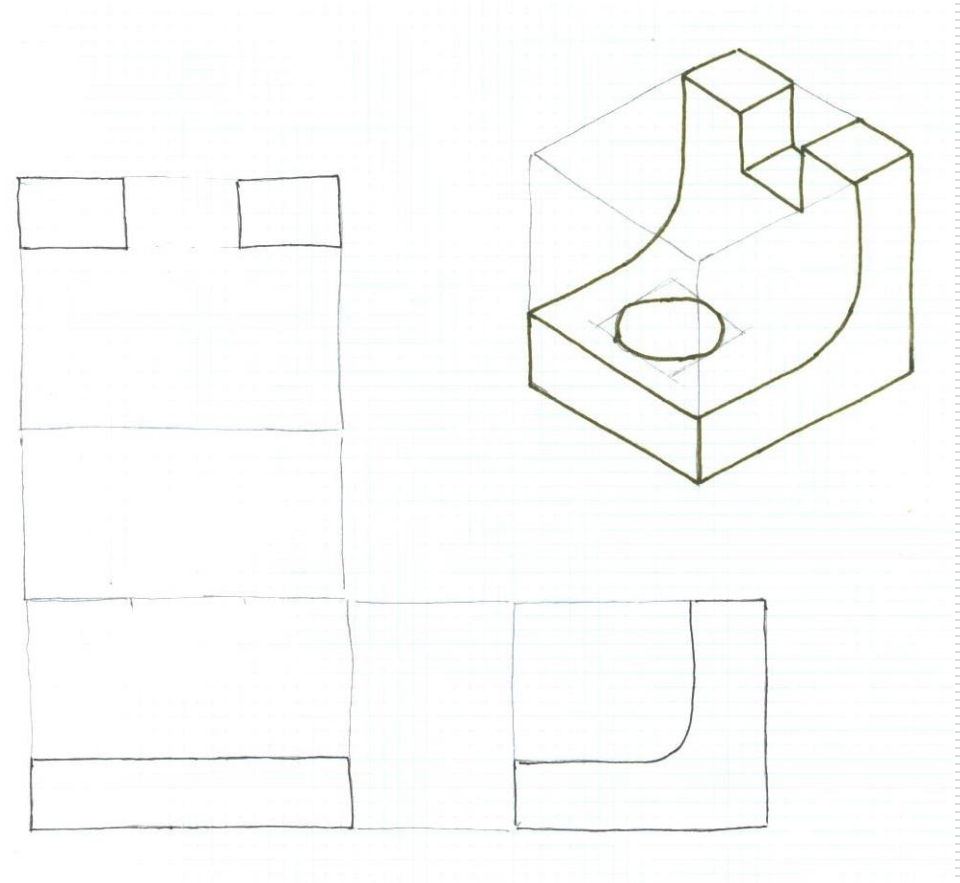
Standard Orthographic Views

- Elevation Views
  - Front / Back
  - Right / Left
- Plan Views
  - Top / Bottom



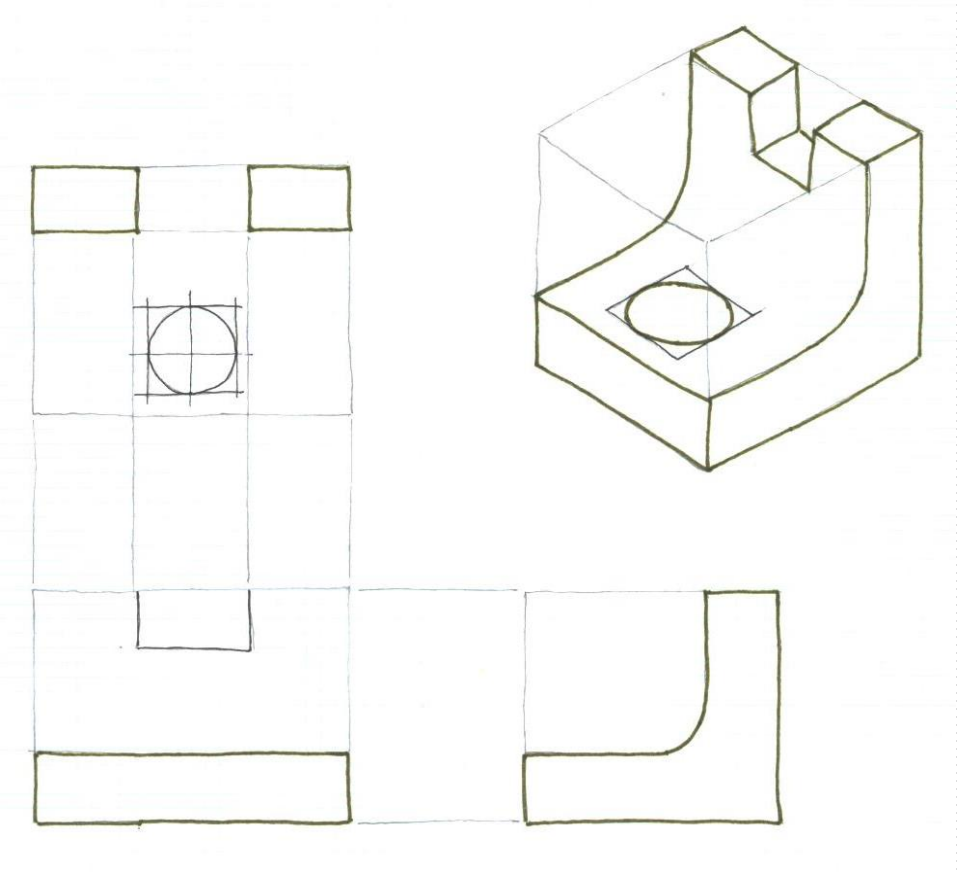
Multi-view sketching: Step 1

- Plan
  - Light construction
  - "Obvious" Detail
- Step 2: Outline "obvious"



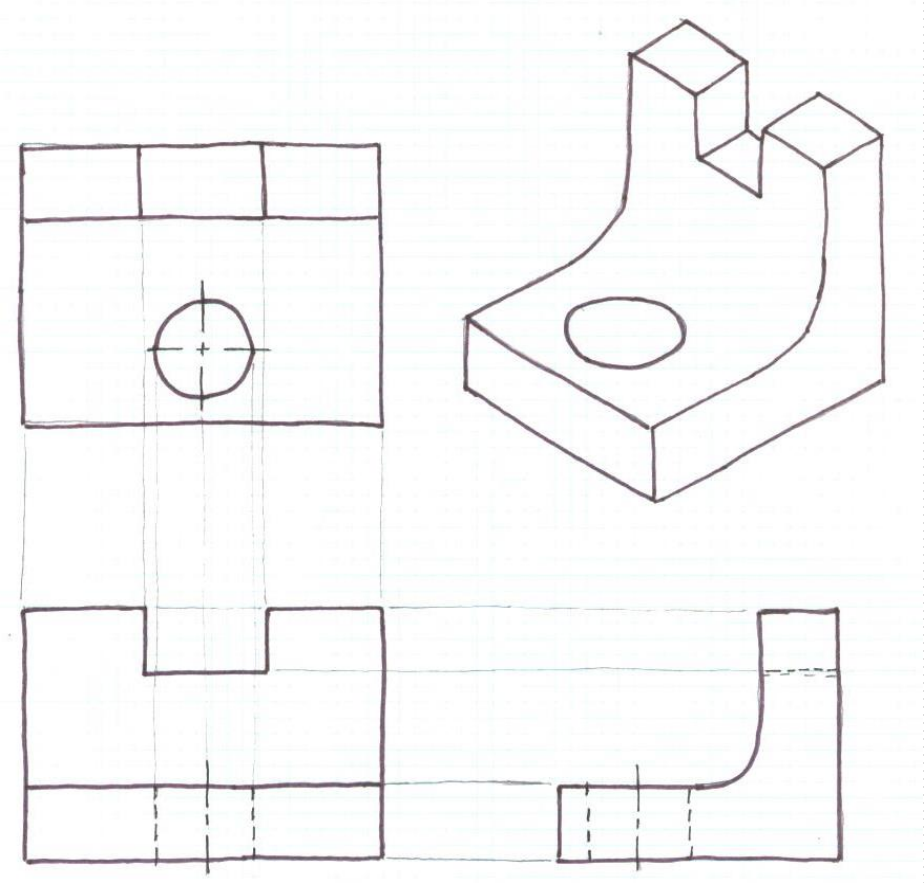
Multi-view sketching: Steps 2

- Outline
  - "Other" details
- Develop Drawing



Multi-view sketching: Step 3

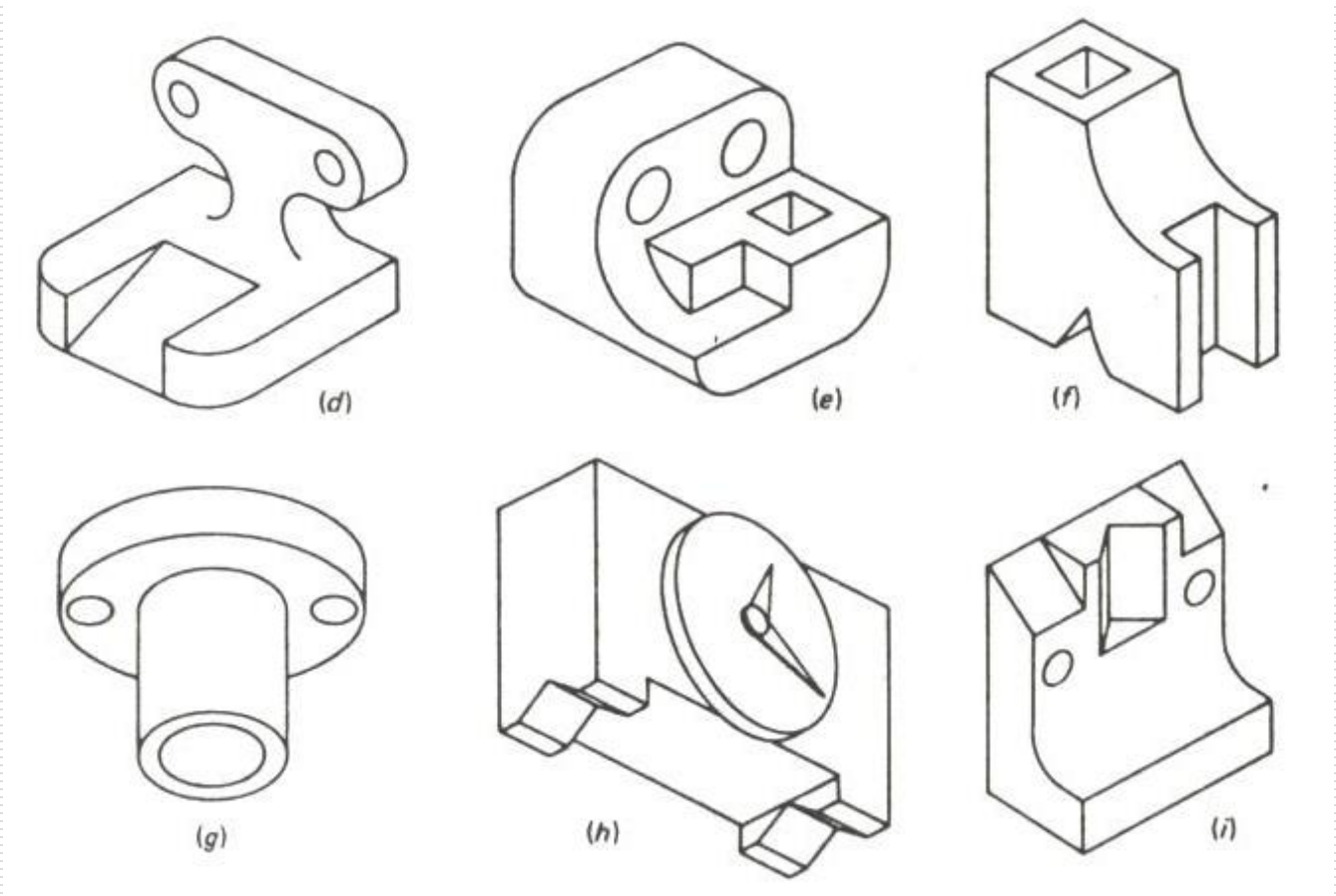
- Complete
  - Linetypes
  - Erase (minimum)



Front View

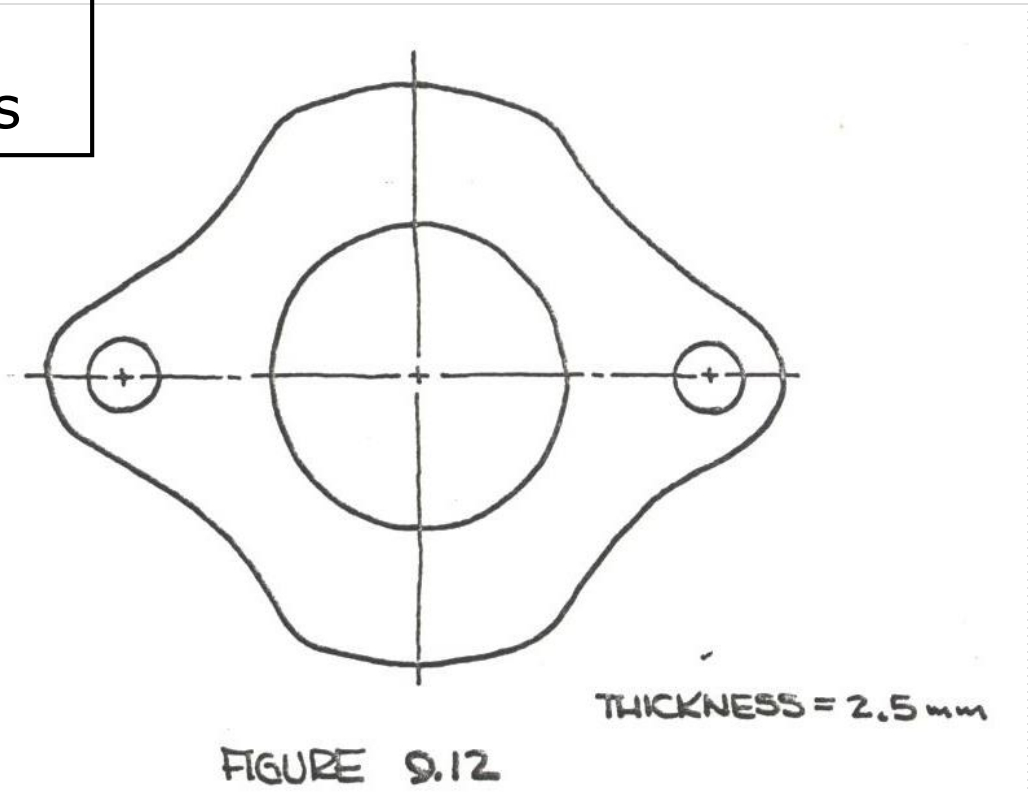
- Orientation
  - Right View (Not Left)
  - Top View (Not Bottom)
  - Important Detail
    - Minimize Hidden Lines
  - Object's Orientation

Select the "best" Front View



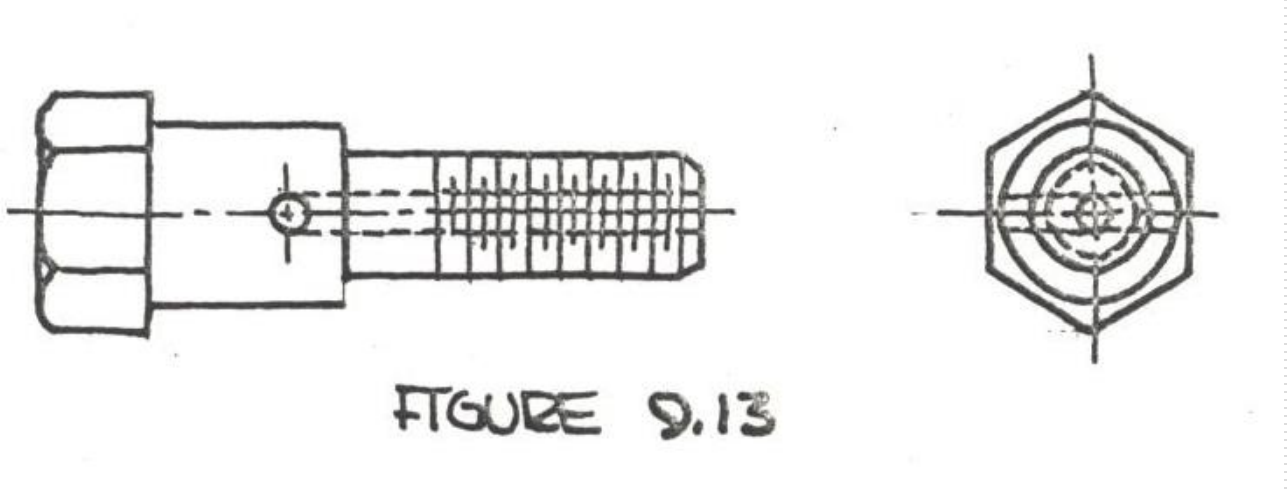
How Many Views?

- Single View
  - Note thickness



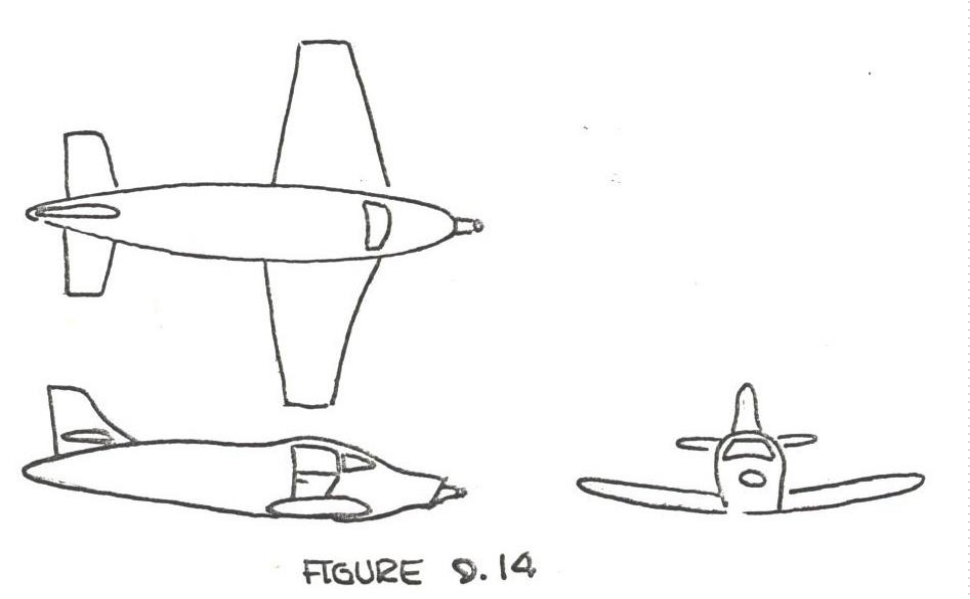
How Many Views?

- Two View
  - Axial Symmetry



How Many Views?

- Three Views
  - Visualization
- Or More
  - Details



Select the best / necessary views

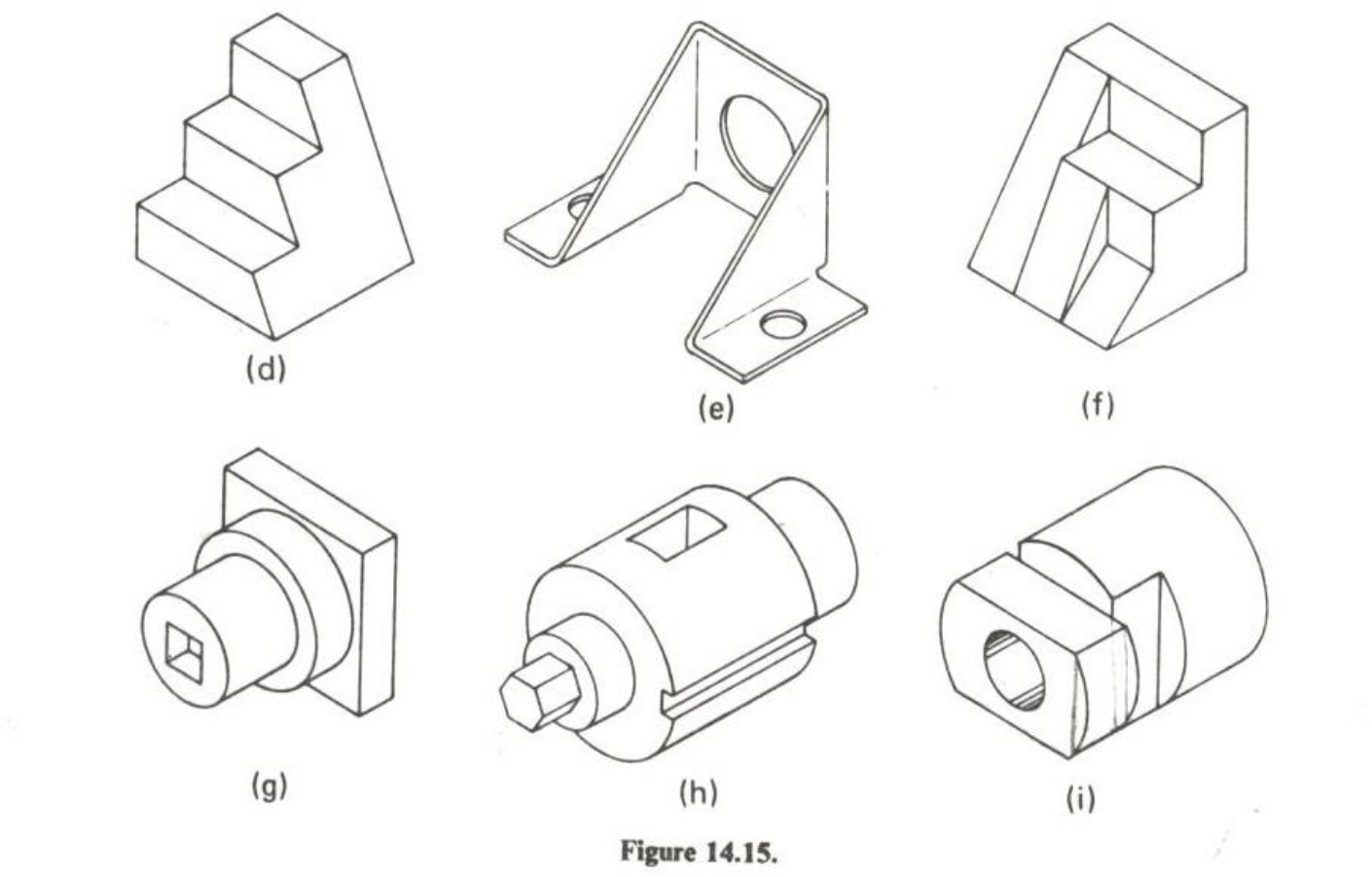
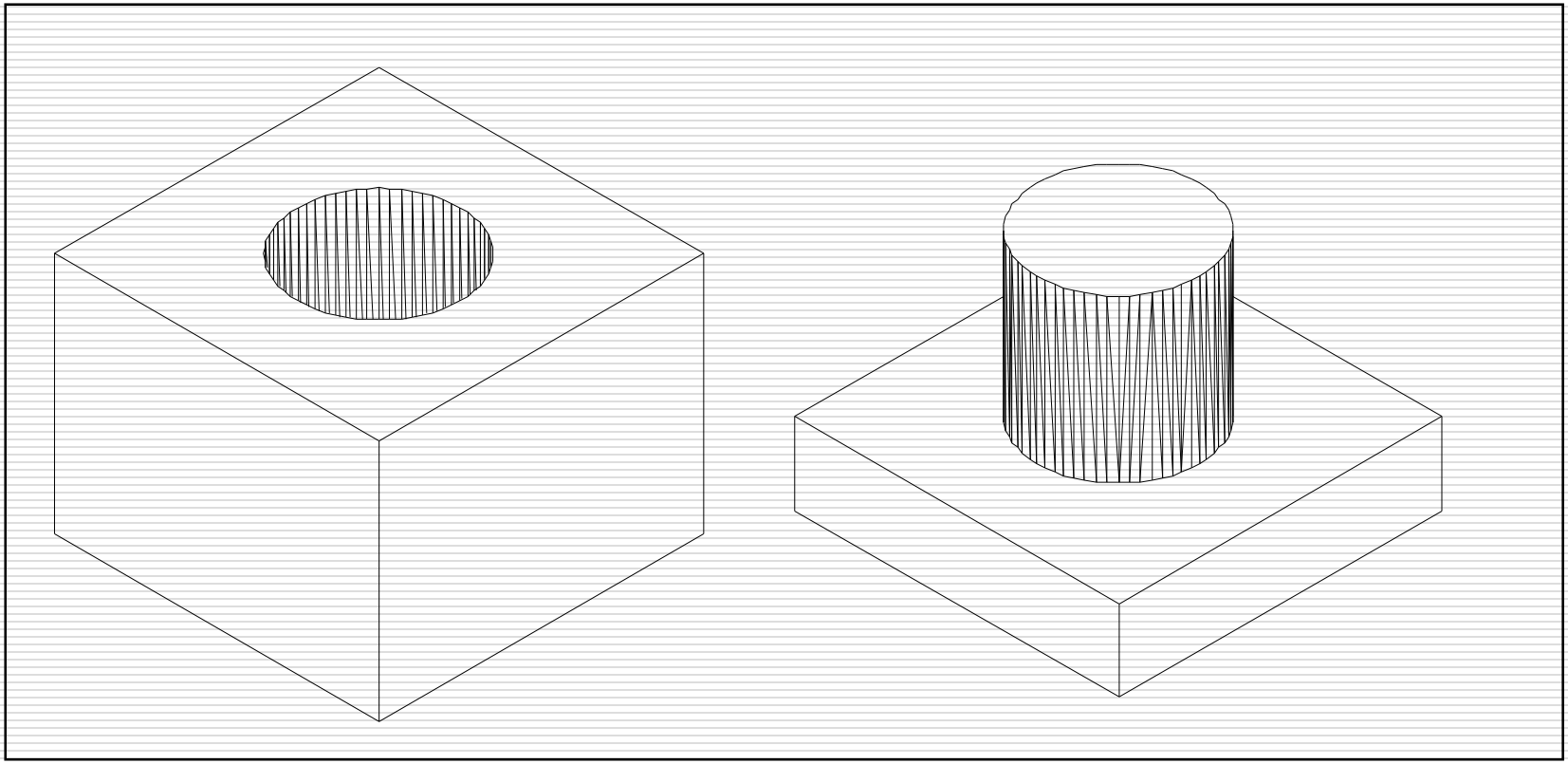


Figure 14.15.

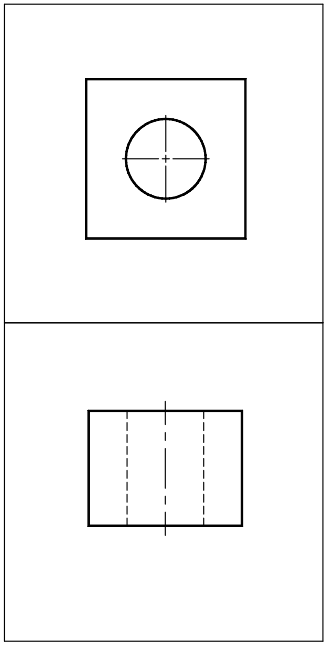
Circular Features

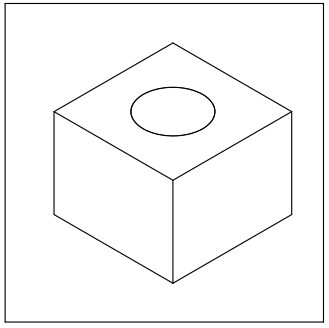
Holes

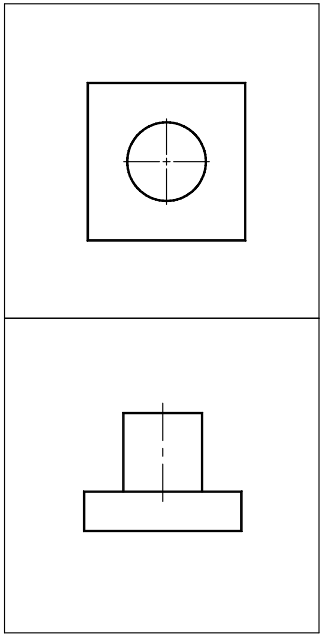
Cylinders

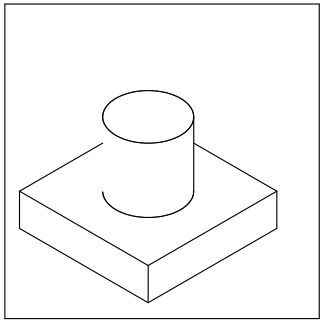


Circular Features / Center Lines



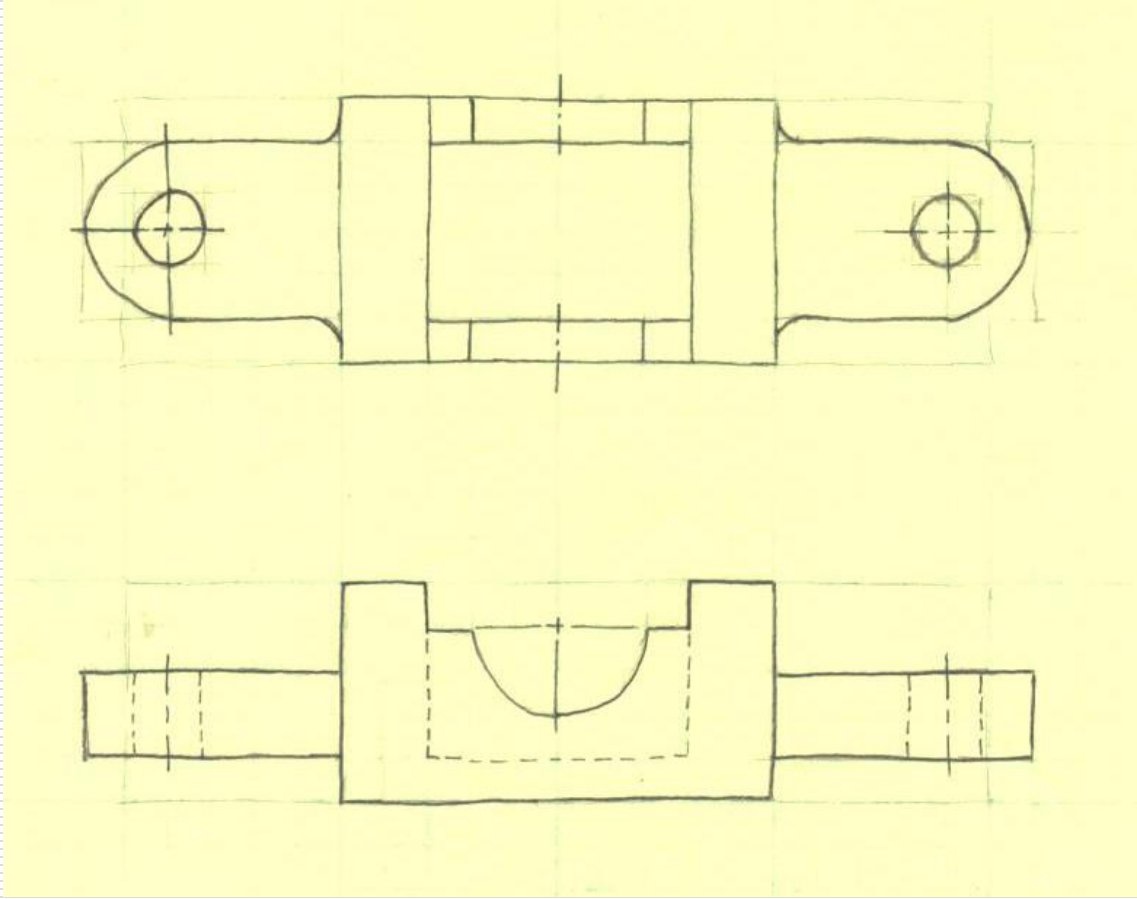






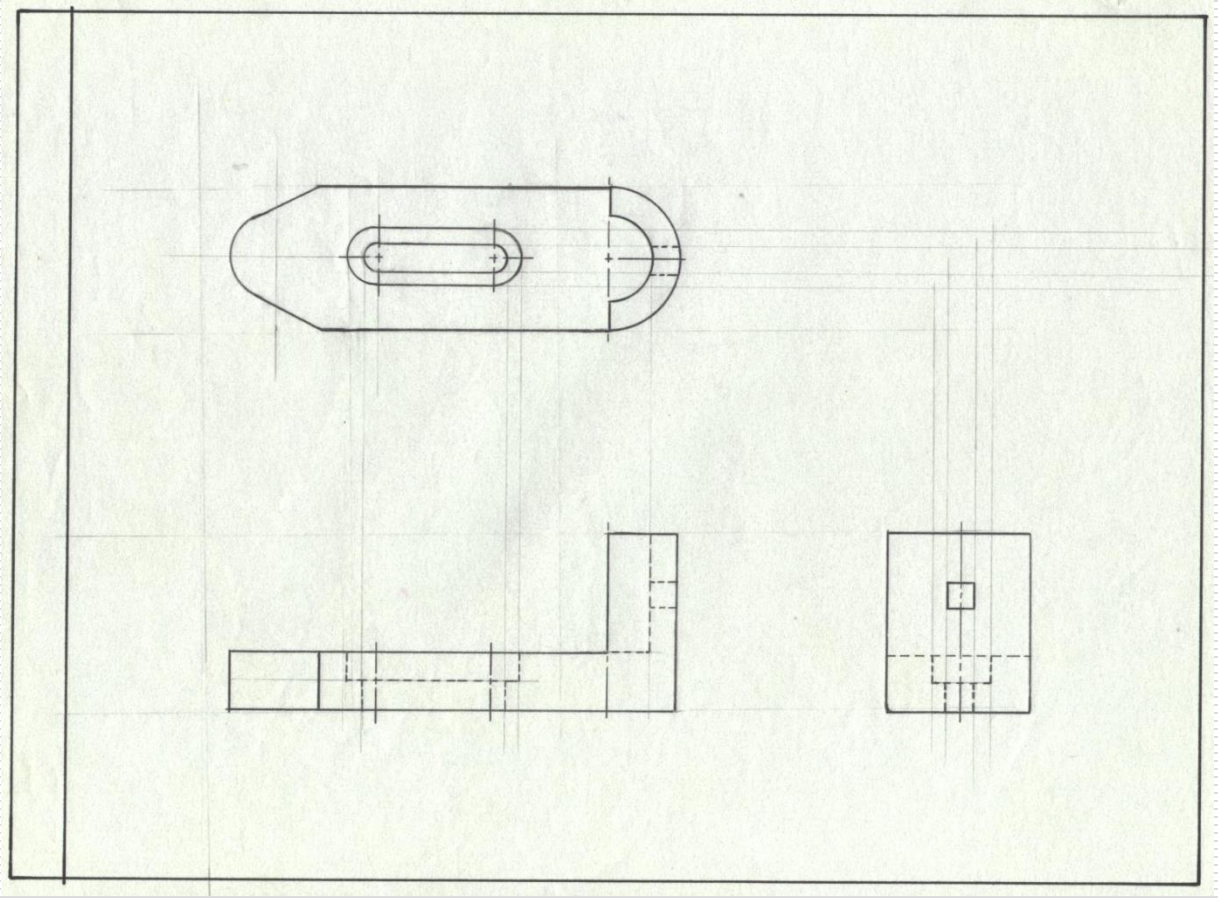
Example: Center / Hidden Lines

Note: Centerline options



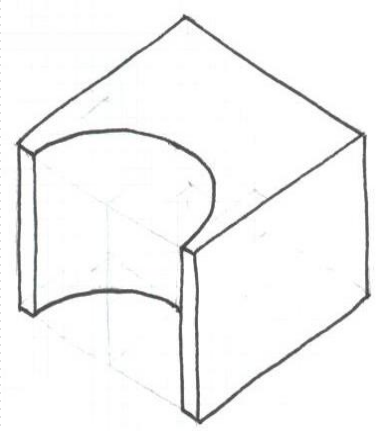
Example: Center / Hidden Lines

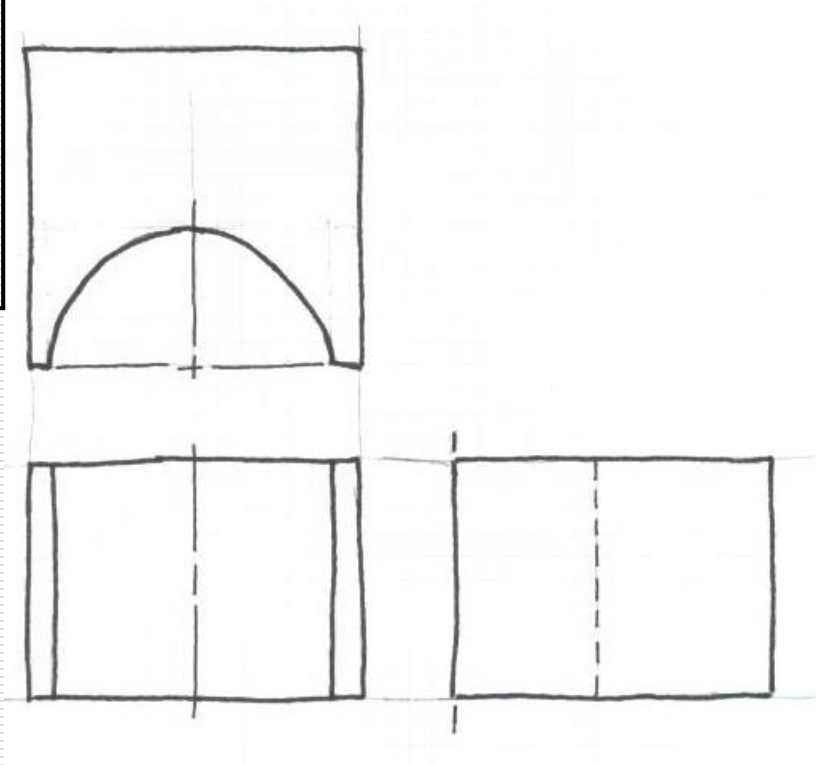
Find missing center mark / line



Line Precedence / Priority

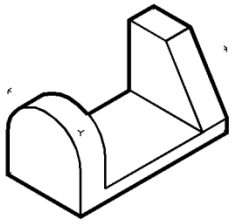
- Object Lines (Highest)
- Hidden Lines
- Center Lines(Lowest)



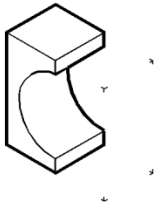


Gr 1.6a

1. Draw Front, Top, and Left Views.



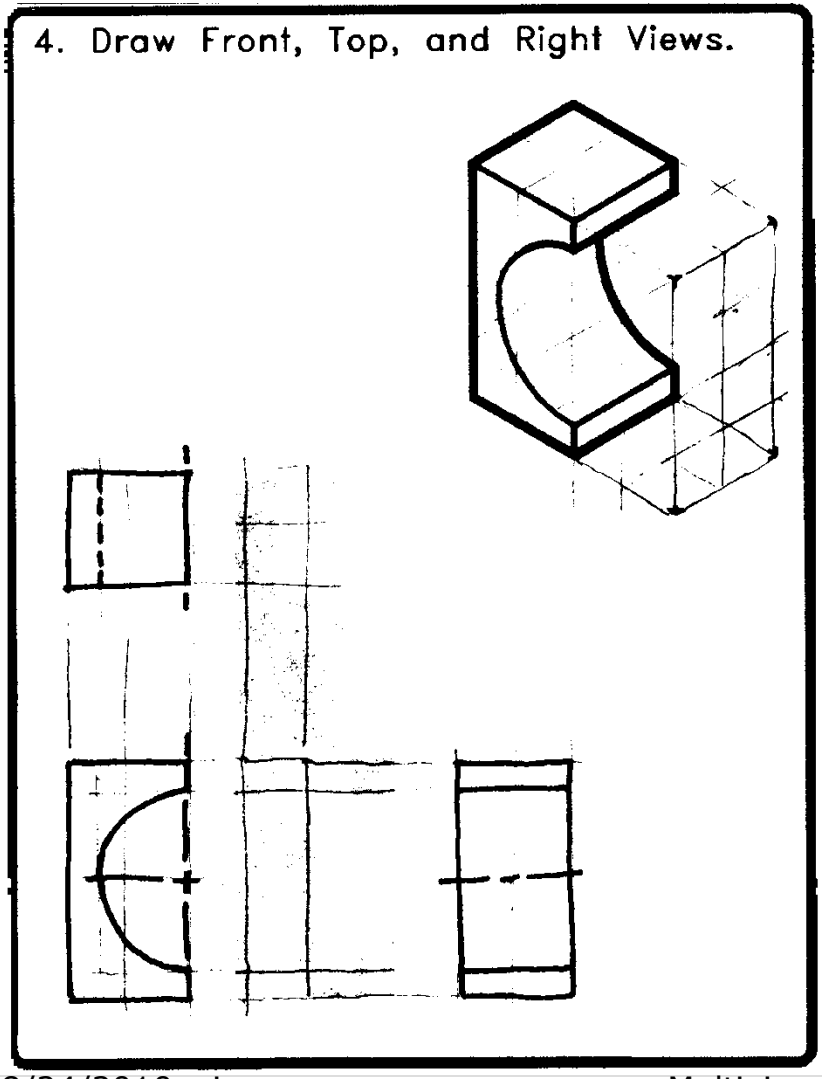
2. Draw Front, Top, and Right Views.

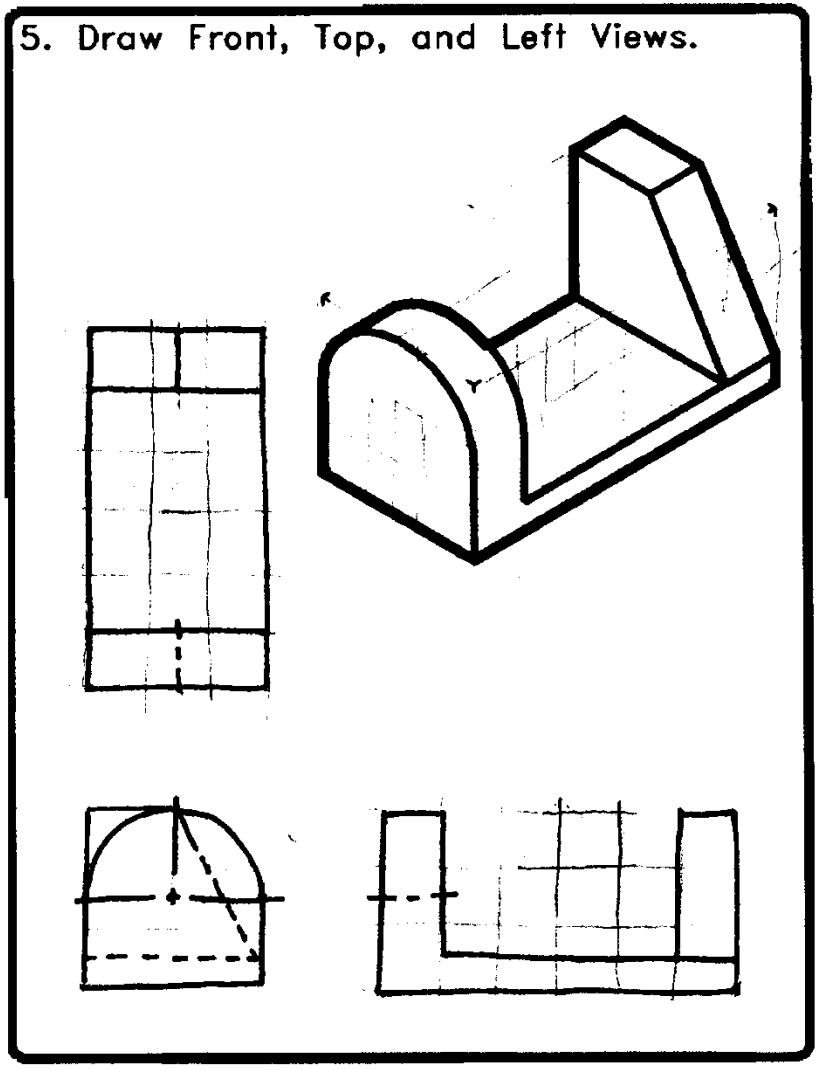


NOTES:

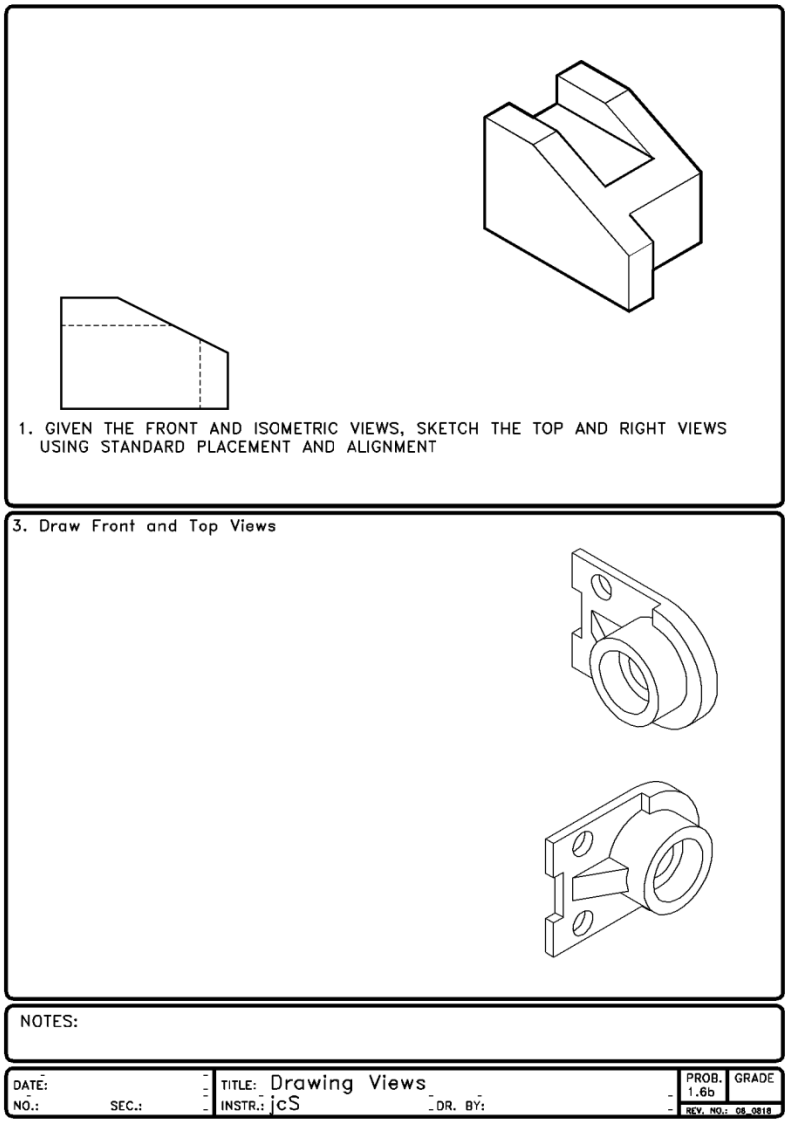
DATE:	TITLE: Drawing Views	PROB. 1.6a	GRADE
NO.: SEC.:	INSTR.: jcS DR. BY:	REV. NO.: 08_0818	

Gr 1.6a: Solution





Gr 1.6b


1. GIVEN THE FRONT AND ISOMETRIC VIEWS, SKETCH THE TOP AND RIGHT VIEWS USING STANDARD PLACEMENT AND ALIGNMENT
3. Draw Front and Top Views
NOTES:
DATE:
NO.:
SEC.:
TITLE: Drawing Views
INSTR.: jcS
DR. BY:
PROB. 1.6b
GRADE
REV. NO.: 08_0818

Gr 1.6b: Solution