



Semester Exam #1

Engineering Drawing (TED303)
 General H.H. Arnold High School
 Programs in Technology Education

Problem: Produce a series of six (6) drawings describing the models below using both CADD and traditional drafting techniques. The Register Block is the isometric sample and the Rod Support is the orthographic sample.

Register Block

1. CADD - 3D Wire Frame from Isometric
2. CADD - Ortho Projection from 3D Wire Frame
3. CADD - Dimension the Ortho Projection
4. DRAFTING – Orthographic from Isometric

HINTS

- a) Always Load the Template file first
- b) Draw from top view (View 1)
- c) XFORM DELTA to get the 3rd Dimension
- d) Project the front notch onto the incline plane
- e) Use layout mode to produce ortho views
- f) Put borders, dimensions, and notes on separate levels
- g) Place in a border and include title block data
- h) Save drawings as SEMEXAM1, 2, 3, and 4

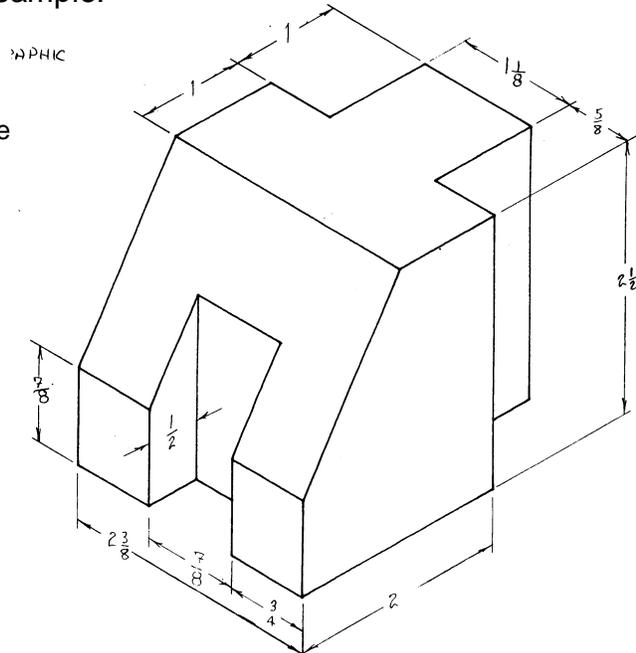


Figure 1 - Register Block, Test Drawing #1

Rod Support

5. CADD - 3D Wire Frame from Ortho
6. DRAFTING – Isometric from Ortho

HINTS

- a) Load the Template file first
- b) Draw from front view (View 2)
- c) XFORM DELTA to get the 3rd Dimension
- d) Put borders and notes on levels
- e) Place in a border and include title block data
- f) Save drawings as SEMEXAM5 and 6

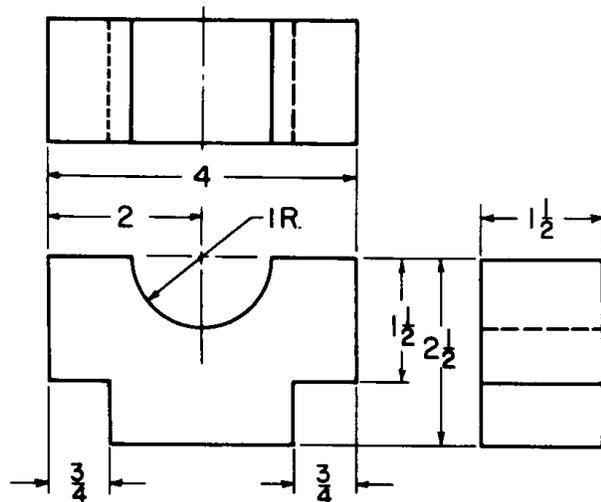


Figure 2 - Rod Support, Test Drawing #2