ME170 Lecture Class Assignment #2
Sketching for Engineers

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Sketching and Drawing Systems:
- Sketching
  What is a sketch?
  Why sketch? Advantages?
  Disadvantages? Materials, technique and speed
  Sketching lines, planes, squares and polygons
- Square; a 2D unit of measure
- Circles and ellipses; polygons
- Orthographic sketching (2D); target points, lines and planes
- Oblique sketching (3D)
- Isometric Sketching (3D)
- Perspective Sketching (not generally used by engineers)

Assignment: Using isometric drawing techniques, begin with a rectilinear form 2" x 3" x 5". By cutting away and removing material, create a new form (refer to illustrated sketch examples). Use light construction lines to sketch the form and dark finishing lines at edges where there is a change of plane. Create as many new forms as you have time to sketch.

Turn in this along with all your other in-class line and circle practice sketches at the end of Thursday’s lecture class.