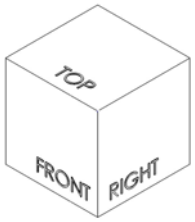
Homework 3

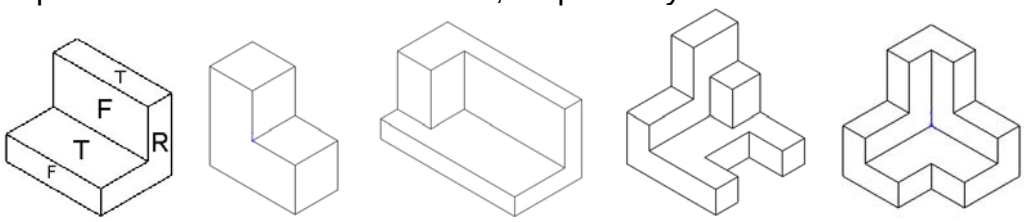
E 122 – Engineering Drawing
Due in Class, Week 4



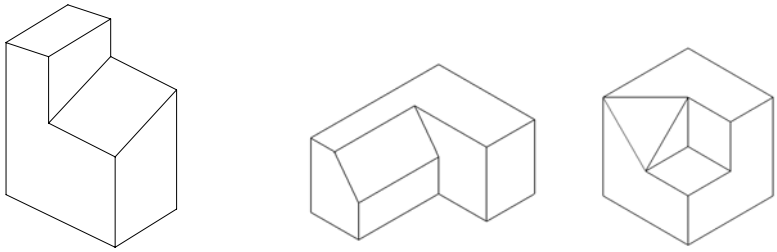
General instructions – create drawings using practices discussed in class. Neatness counts. Use 1 sheet of 8.5x11" inch white (or graph) paper per set of views (or per part) in "landscape" orientation (page is longer in horizontal direction). Draw a simple border per instructions from previous hw's. Use cube above to determine which part sides are top, front, & right. Do not draw the orthographic views.

Use pencil & ruler or hand sketch per instructions below (except last problem, which is in CAD)

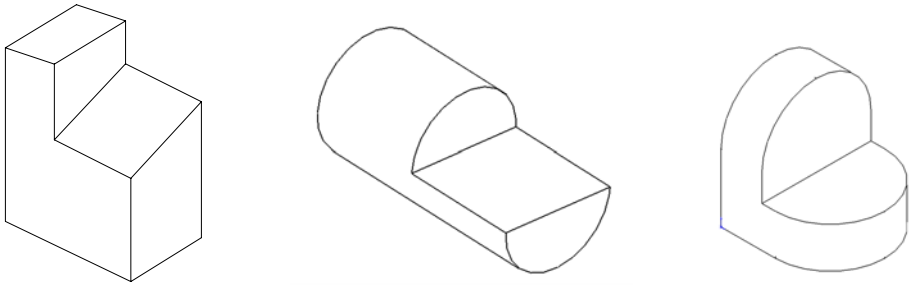
1. Hand sketch (no ruler) each of the parts below (including the 1st one!). Then label each visible surface with an "F", "R", or "T" to indicate surfaces that are parallel to the front, right, and top surfaces of the reference cube, respectively.



2. Draw (with a triangle) the parts below having inclined or oblique surfaces. Label each visible surface with the appropriate letter(s) indicating which view(s) the surface's area can be seen in (refer to the "labeled cube" in the problem above). (e.g., TF, for top & front).



3. Hand sketch the parts below. Then indicate the LINE RULES for EACH LINE on the part (do NOT label surfaces as with problems #1 & #2). The line rules are: (1) Edge, (2) contour/profile of surface.



4. Get into AutoCAD. Draw some lines. Plot in monochrome. Hand in sheet.