Sketching Assignment 2:

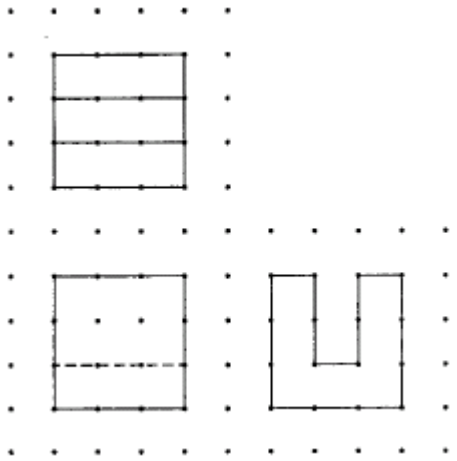
An engineer nearly always resorts to sketching to organize thoughts quickly and to more clearly visualize the design that appears. The first idea may be sketched in pictorial form as they are visualized. Later, a combination of orthographic and pictorial sketches may pile up as problems are recognized and possible solutions are shared with a design team. Uses of both the orthographic and pictorial sketches continue throughout the design process and into the detailing stages. Sketching is especially important for recording creative thoughts.

Homework:

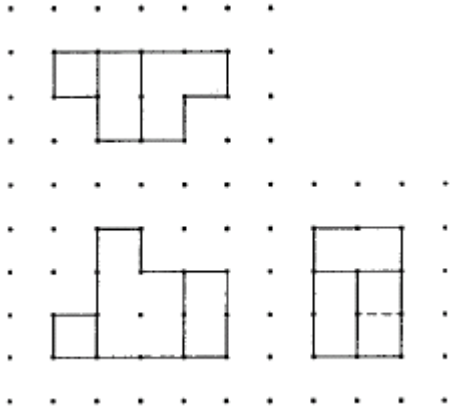
Grading criteria:

1. All sketches are to be created using a lead pencil and the freehand sketching method only. No ruler or other type straightedge may be used.
2. No problem will be graded if sketched on graph paper. Use plan white paper only. But you can place paper over isometric or orthographic grid paper.
3. Place each Orthographic 3-view sketch on a separate sheet of paper.
4. Place two isometric pictorial sketches per sheet.
5. On each sheet, using **freehand uppercase letters only**, place the Problem Number(s), your Name (last, first) and Section number.

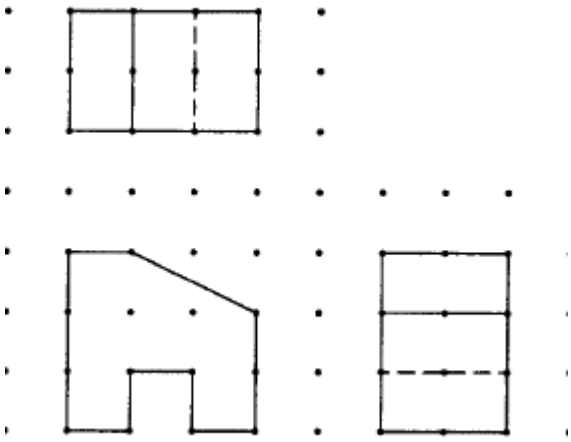
1. Sketch an Isometric pictorial drawing of each problem shown below. Place two problems per sheet and include your name, section number and drawing numbers on each sheet.



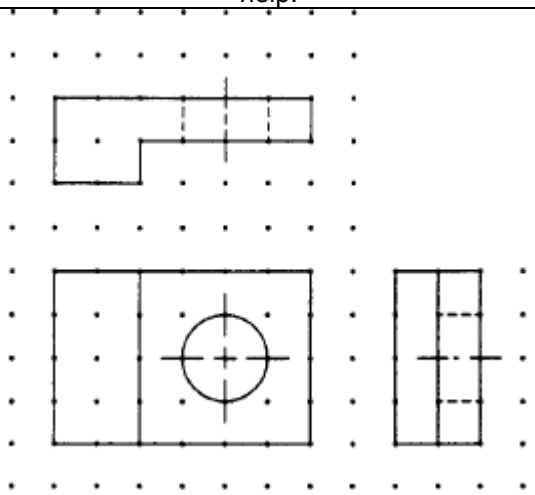
2.2-10



2.2-11
This one is a little harder, but spend some time trying to figure it out before asking for help.

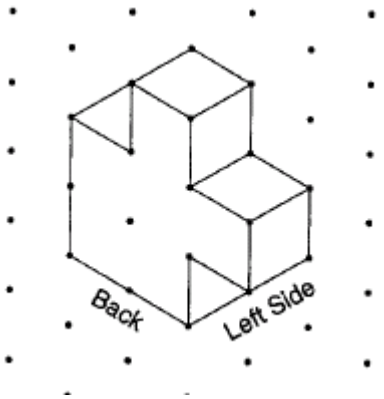
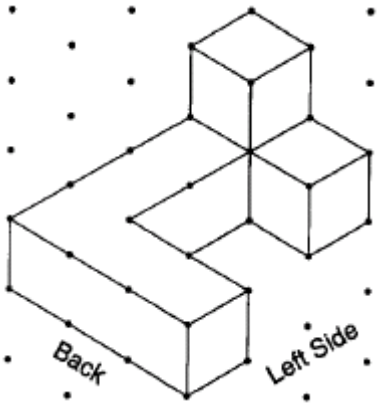


2.3-7



2.4-5

2. Construct a Orthographic 3-view sketch of each problem shown below. One problem per sheet and include your name, section number and drawing number on each sheet.

<table>
<tr><td> 
</td><td> 
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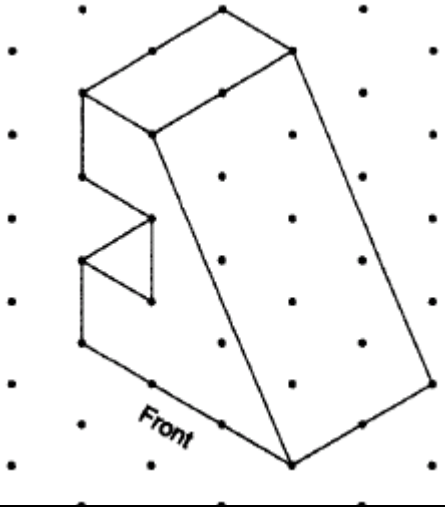
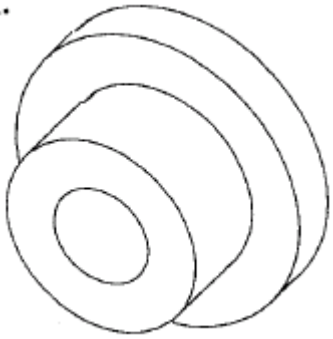
<tr><td>2.2-7</td><td>2.2-8</td></tr>
<tr><td> 
</td><td>1.  </td></tr>
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