Engr 210
Homework #2

Workbook Problems:

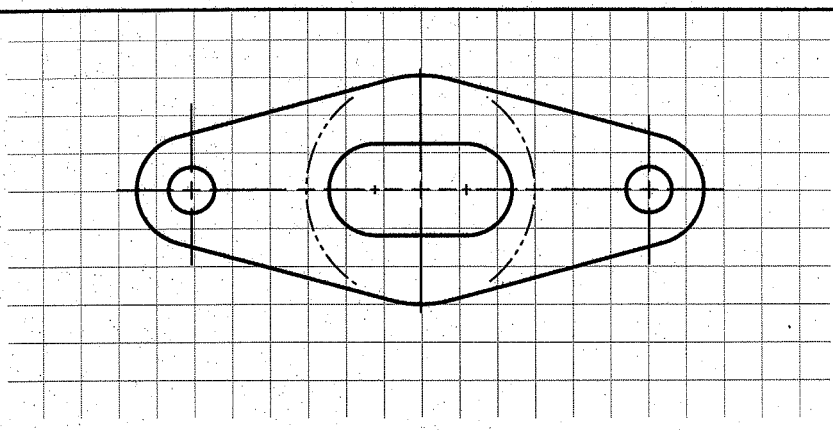
3.1 Ridge Gasket: Sketch the ridge gasket using the rectangular grid.

3.3 Coordinates 1: Four grid lines equal to one unit. In the upper half of the rectangular grid paper, sketch the figure using the following absolute coordinate values: 0,0; 3,0; 3,2; 0,2; and 0,0. In the lower half of the rectangular grid paper, sketch the figure using the following relative coordinate values: 0,0; 4,0; 0,3; -4,0; and 0,-3.

3.4 Coordinates 2: Four grid lines equal to one unit. Using the isometric grid paper and following the right-hand rule, place and label points at the following locations: 0,0,0; 4,0,0; 4,2,0; 0,2,0; 0,0,2; 4,0,2; 4,2,2; and 0,2,2.
After placing the points on the isometric grid, connect the following points with lines: 1-2, 2-3, 3-4, 4-1, 5-6, 6-7, 7-8, 8-5, 4-8, 3-7, 1-5, 2-6.

3.5 Geometric Construction:

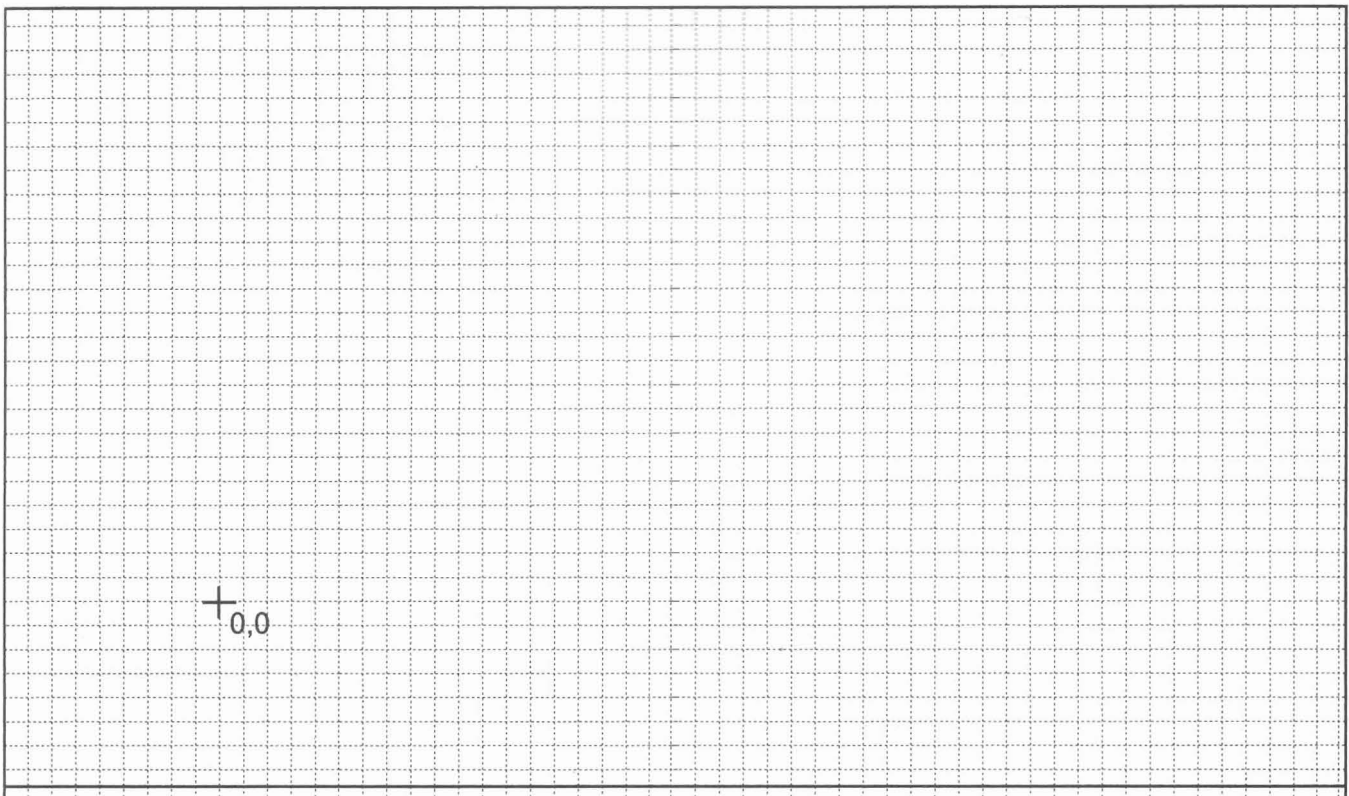
a) Using scissors, cut out the pattern then use glue or tape to create a 3-D form of the cube. The dashed lines represent where the paper is to be folded and the solid lines are where the paper is cut.
b) Repeat (a) above to create a 3-D form of an Oblique Block.
c) Take a picture of the two solids (boxes) you created in Parts (a) and (b) above, and include these pictures in the pages that you upload to WebAccess.

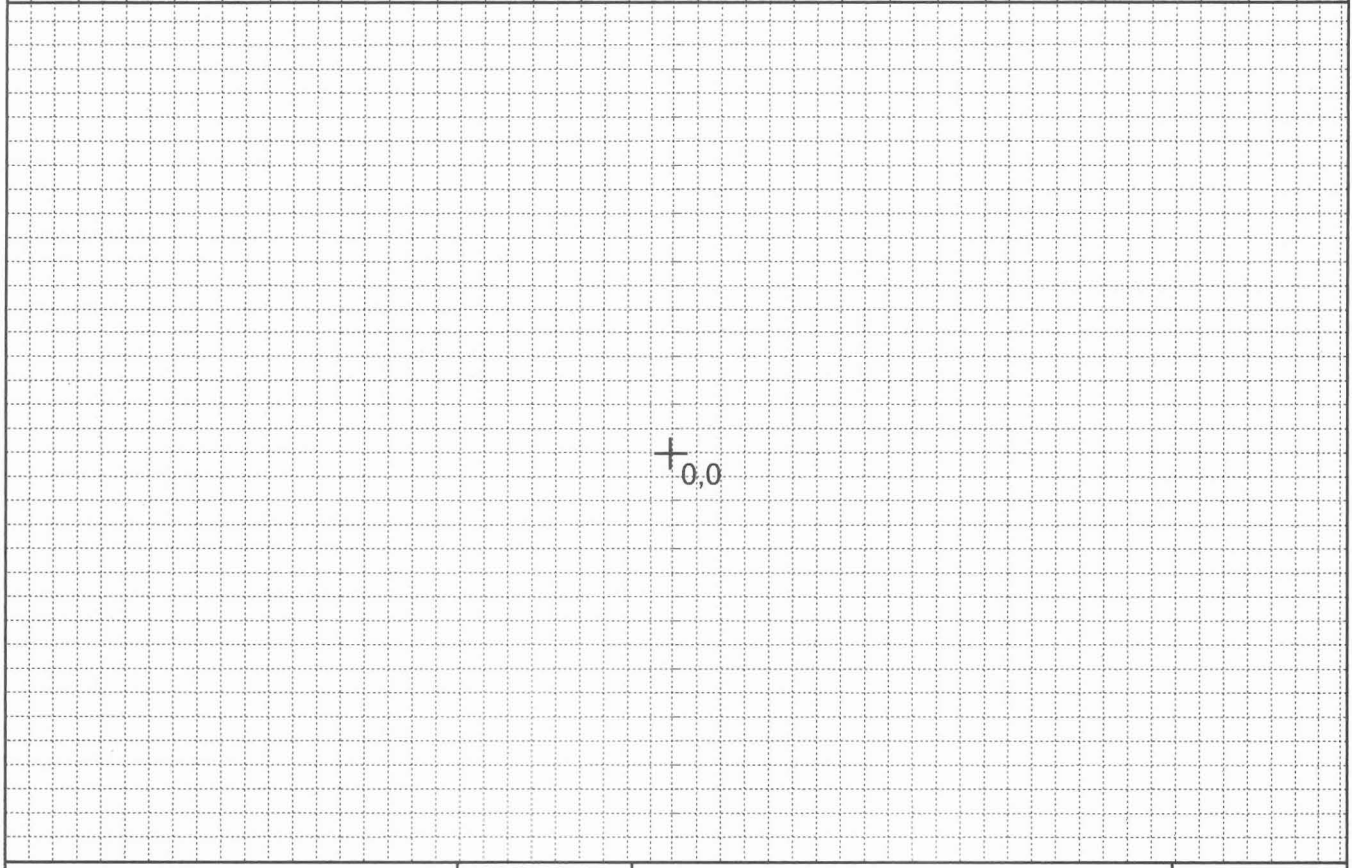


**RIDGE GASKET**

NAME _____

COURSE _____ DATE _____




| COORDINATES 1 | REFERENCE UNIT 6.3 | NAME _____ COURSE _____ DATE _____ | DRAWING 3.3 |
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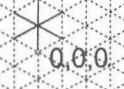
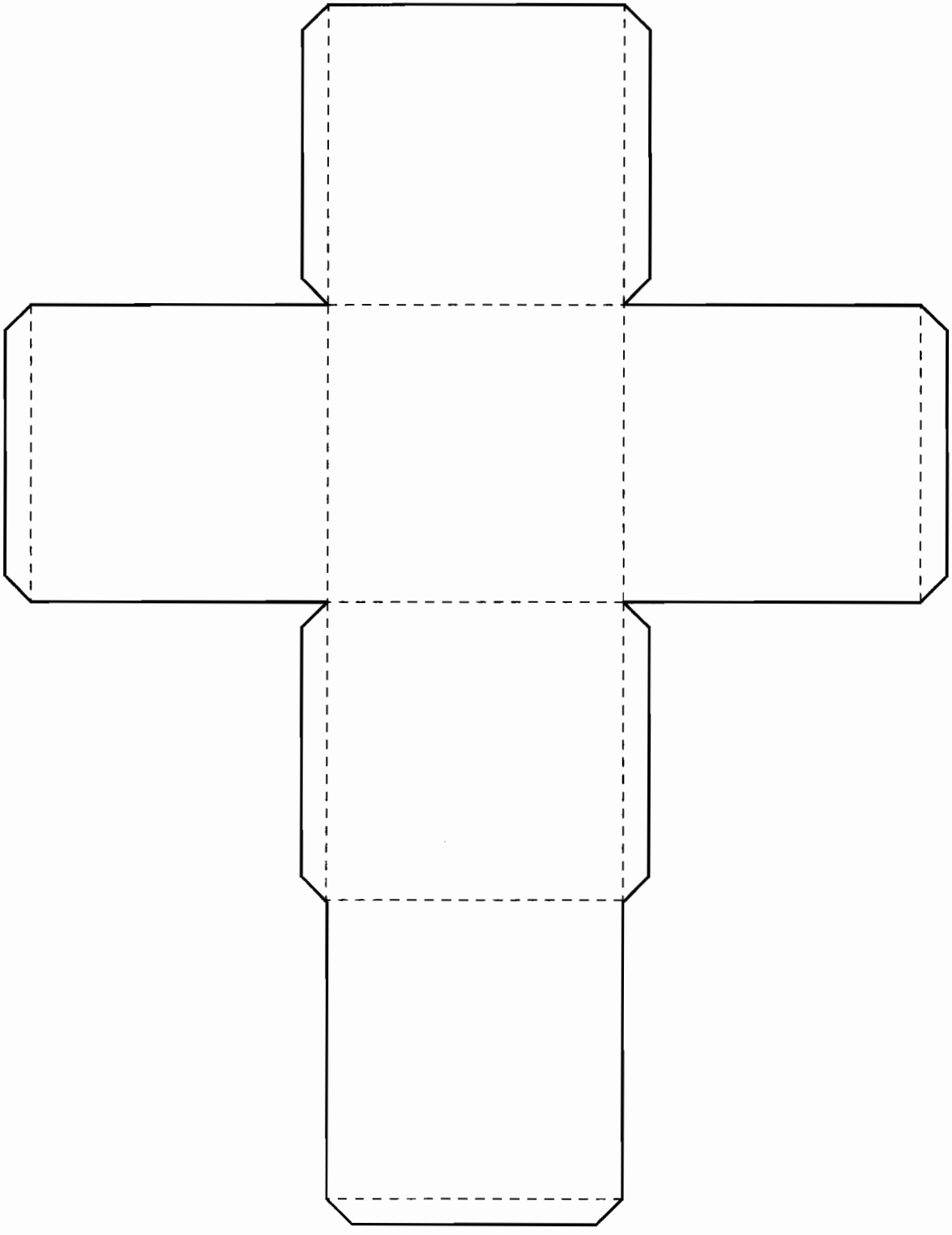



| COORDINATES 2 | REFERENCE UNIT 6.3 | NAME _____ COURSE _____ DATE _____ | DRAWING 3.4 |
|---|---|---|---|



| GEOMETRIC CONSTRUCTION | REFERENCE UNIT | NAME<br>COURSE DATE | DRAWING 3.5 |
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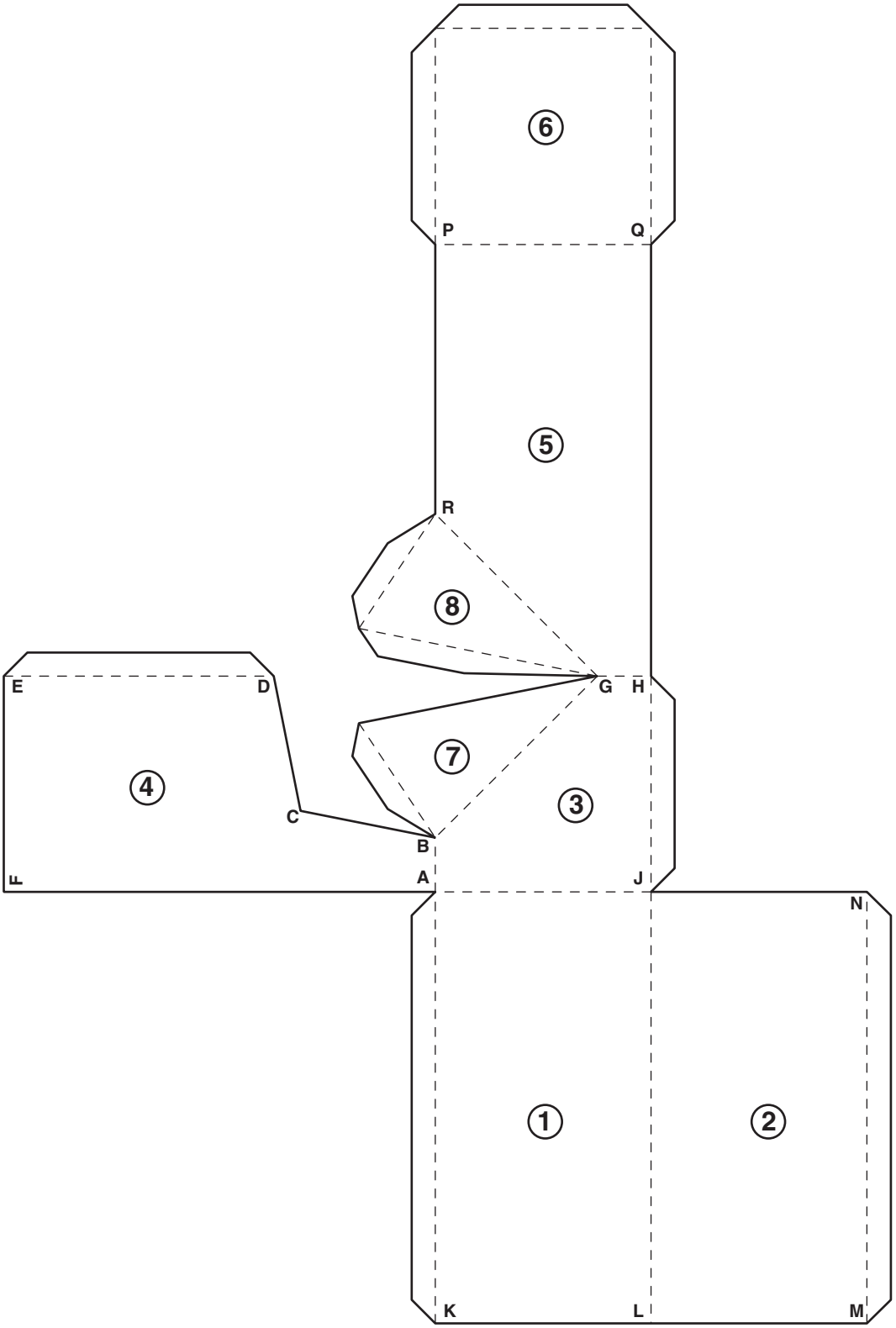


**Pattern of an Oblique Block to Be Made into Three-Dimensional Form**