

University of Jordan
Mechanical Engineering Department
Engineering Drawing & Descriptive Geometry

Final Manual Exam

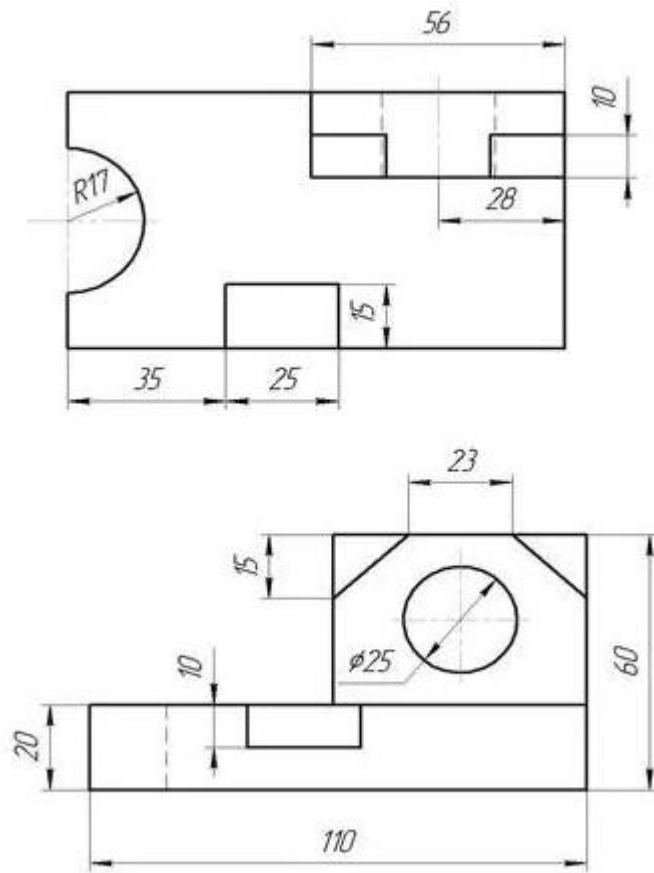
Section (2)

Student Name: _____

File No. _____

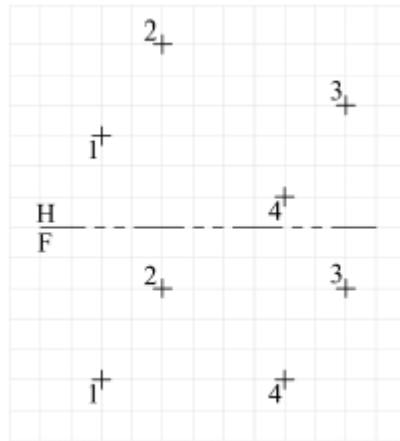
Problem (1): Draw the following views as 3D Solid in Grid Paper using the isometric coordinates.

(10 Points)

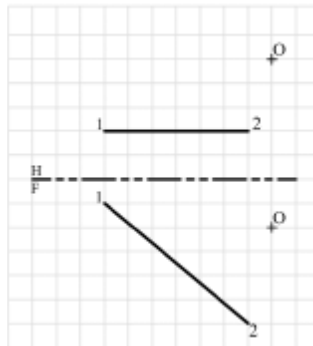


Problem (2): Redraw the following exercise on a “Grid Paper”. For Triangle (134) and Point (2), find the following by starting projection from front: (9 Points)

- Compute the area for the triangle, $Area = 0.5 * base * height$.
- Find the true length for the shortest distance between the triangle and point.
- Start Projection from horizontal and find the angle between the lines (1-3) and (3-2).



Problem (3): Redraw the following exercise on a “Grid Paper”. Then find the shortest distance between the line (1-2) and the point (O), and find the true length for the shortest distance. (3 Points)



Problem (4): Redraw the following exercise on a “Grid Paper”. Then draw a line from point (1) which lies on the Horizontal Plane (3456) and the line is 3 cm perpendicular on the plane. (3 Points)

