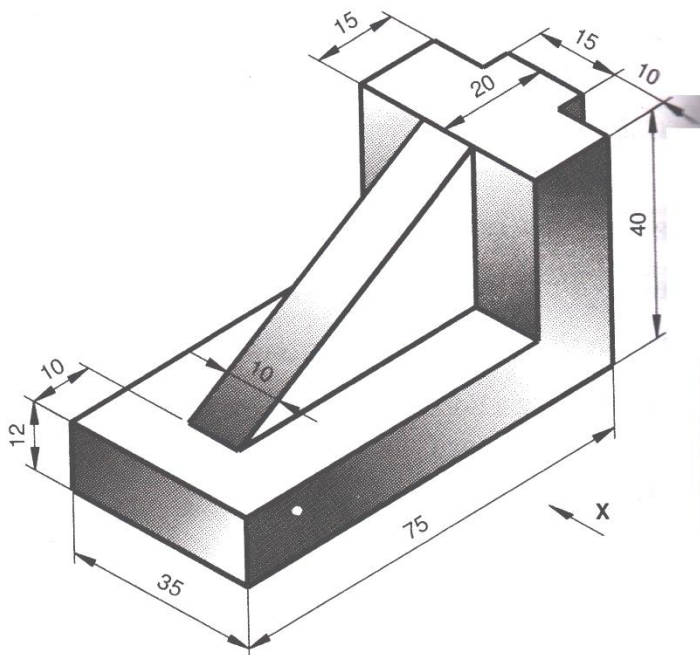
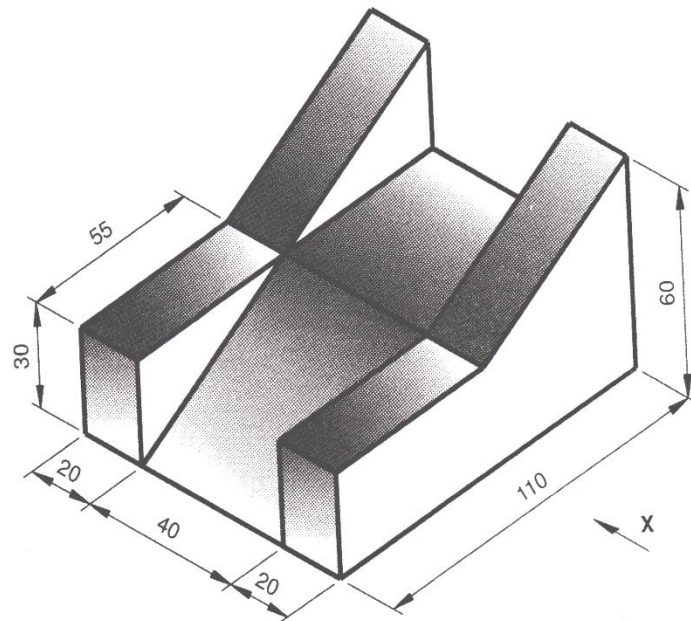


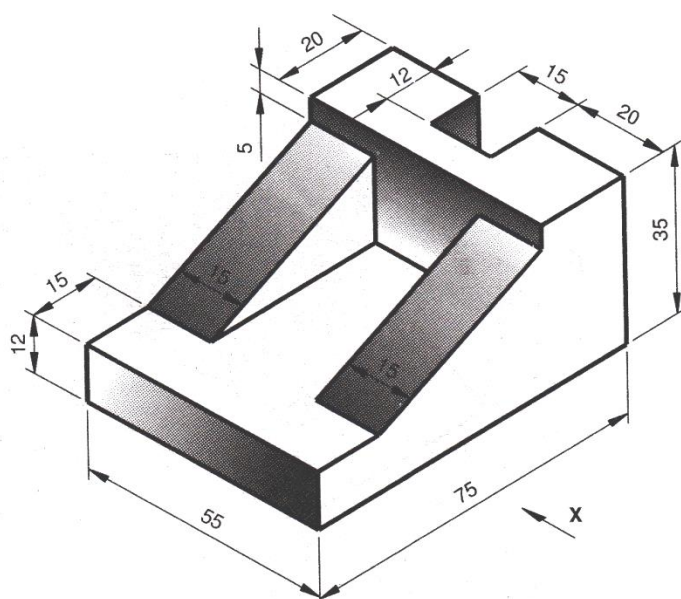
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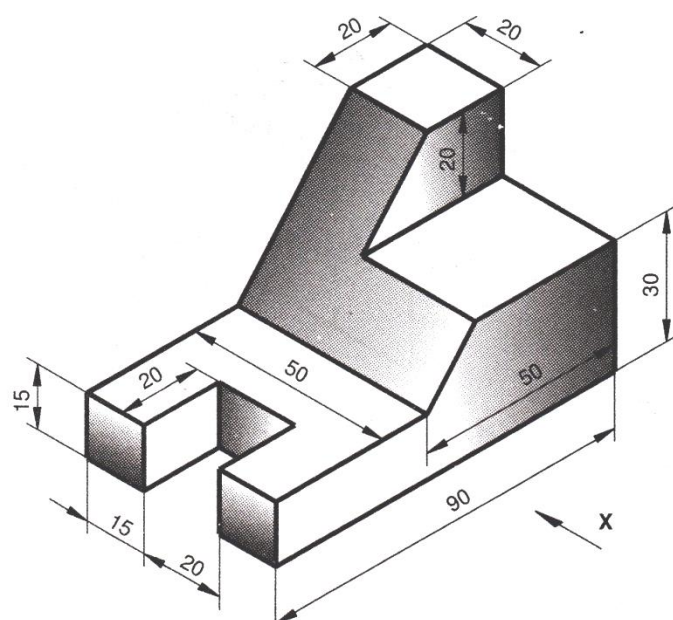
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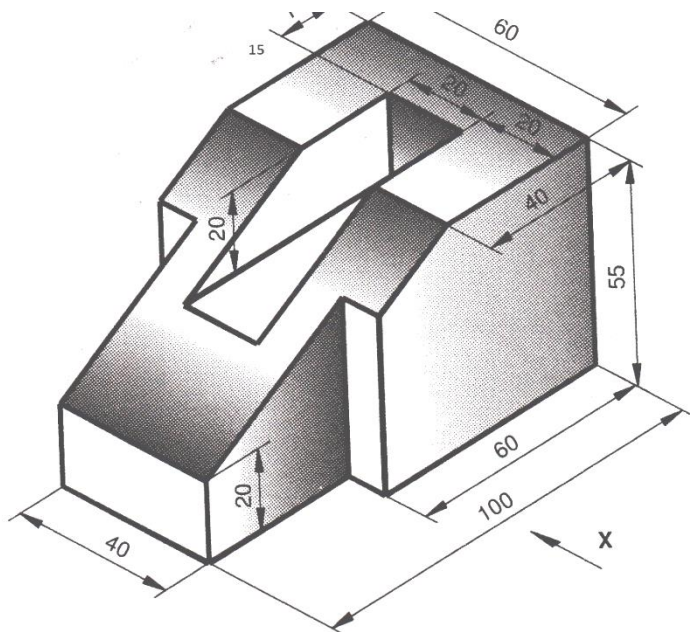
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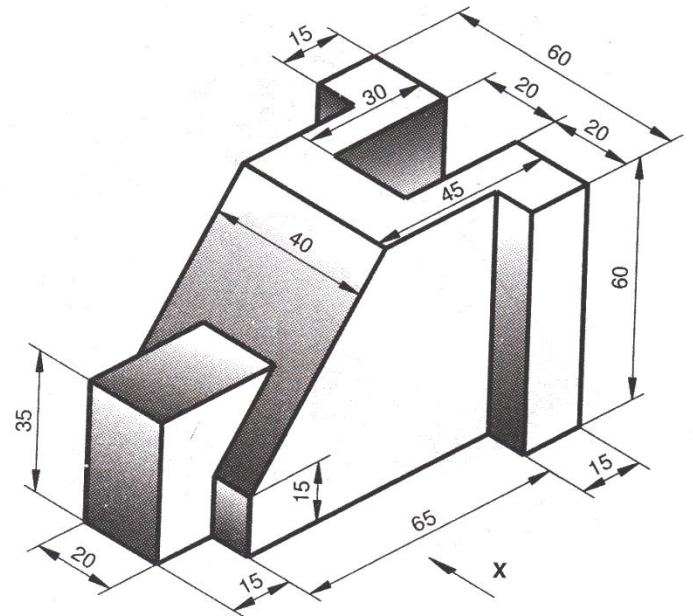
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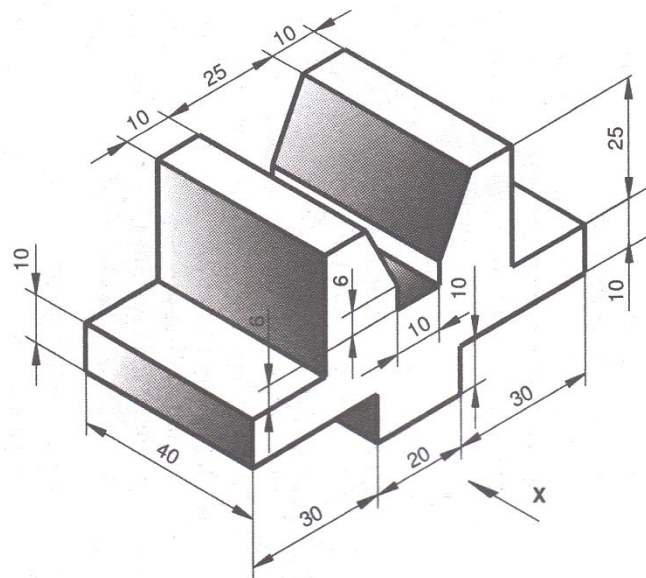
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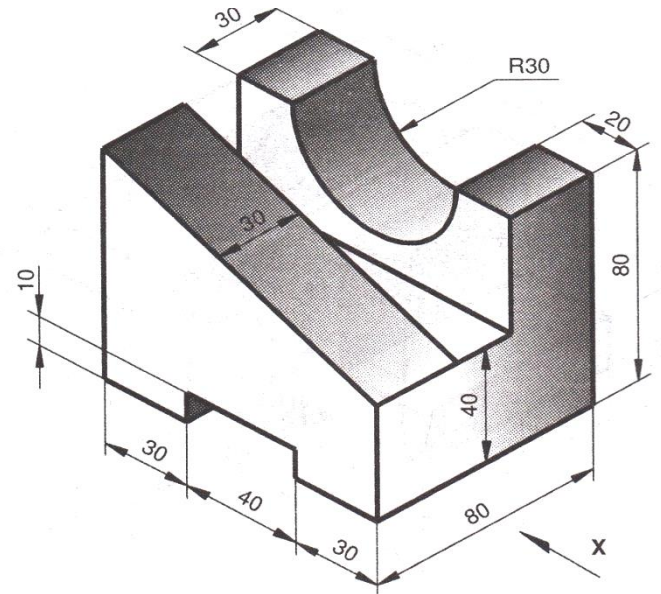
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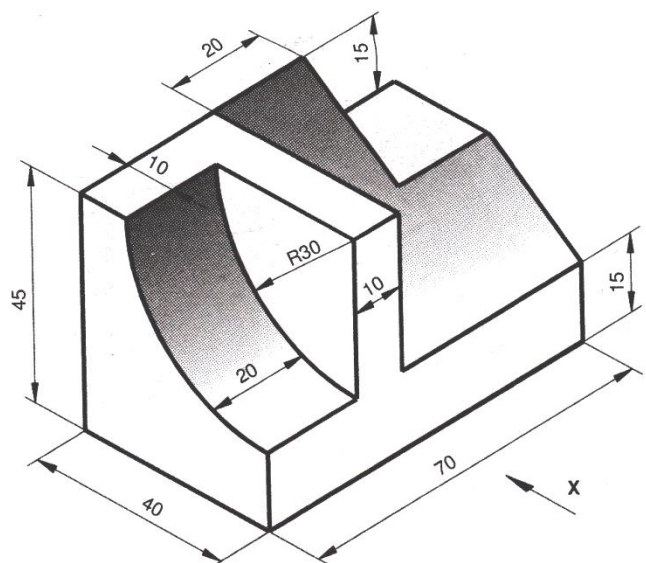
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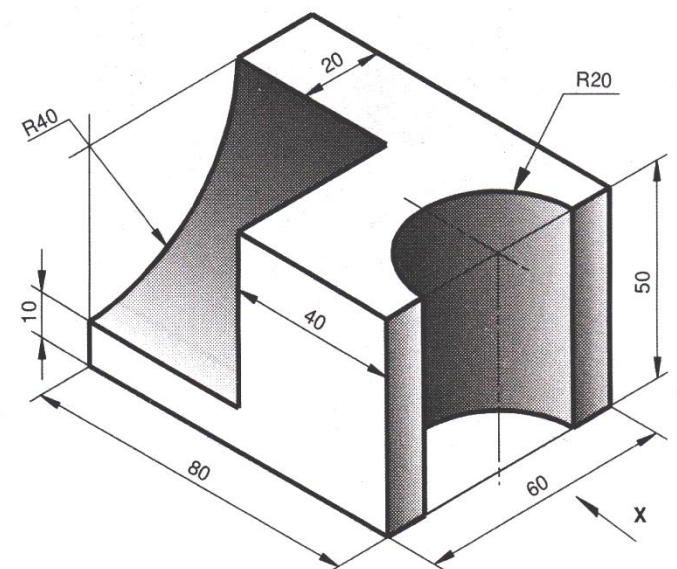
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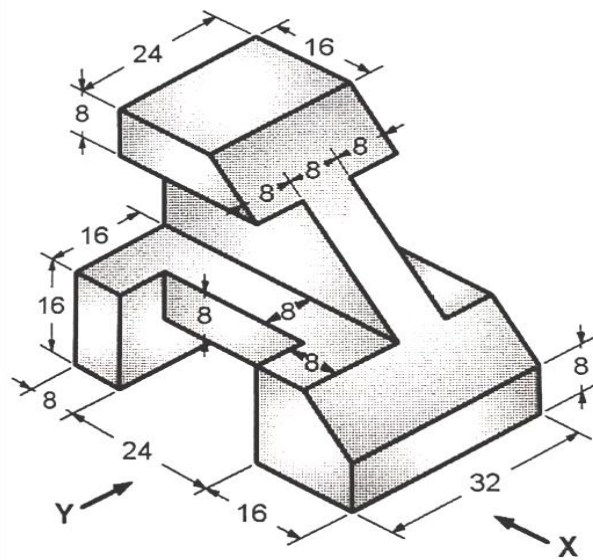
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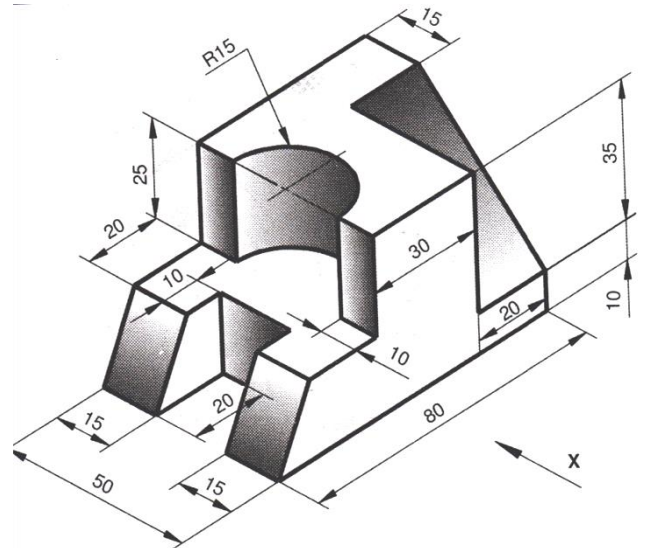
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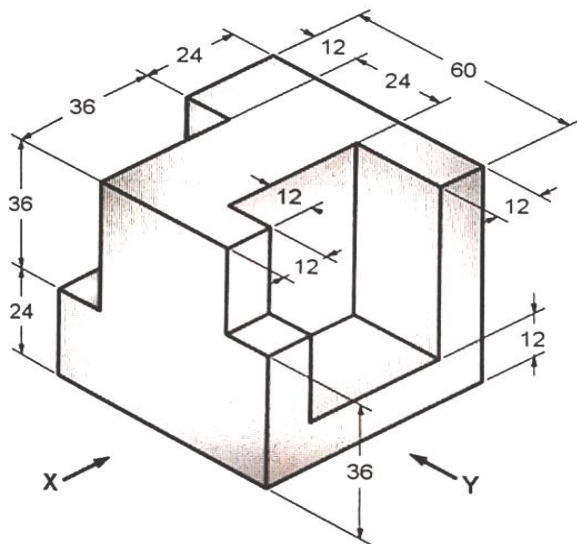
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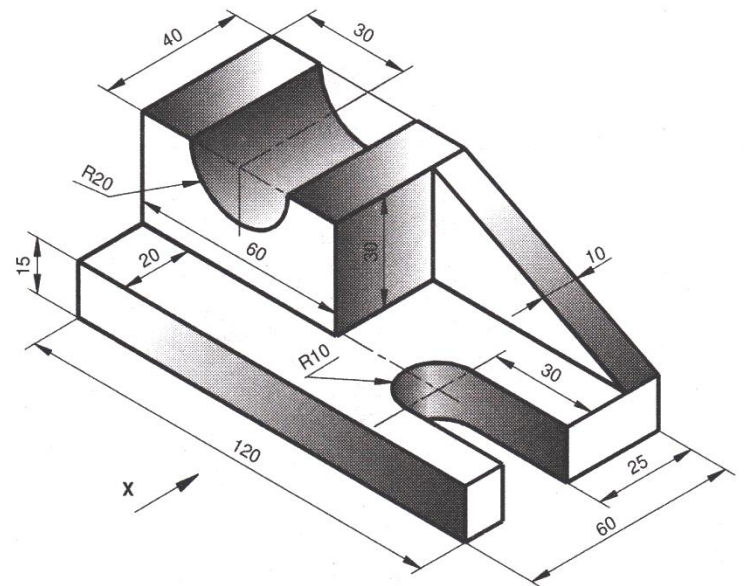
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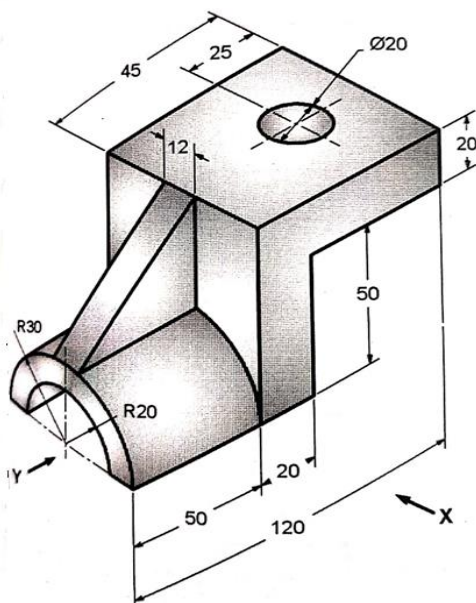
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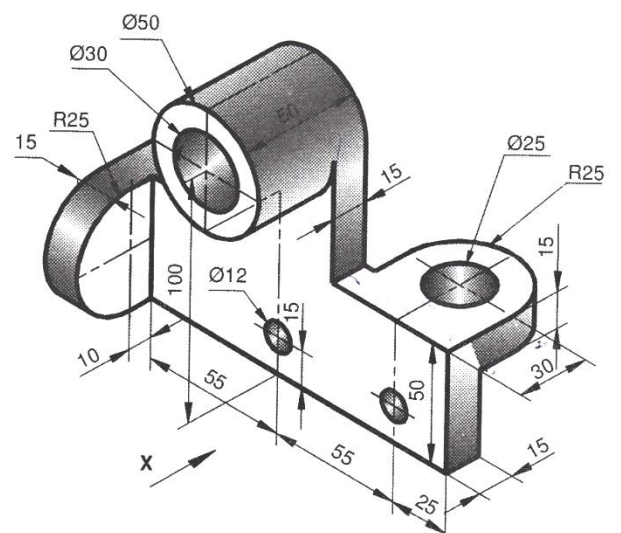
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15



16



An isometric drawing of a mechanical part. The part has a base with a total width of 90 and a depth of 70. The base is 20 units high. On the left side, there is a vertical section that is 55 units high and 45 units wide. A horizontal slot, 10 units deep and 20 units wide, is cut into the base. A curved feature with a radius of R25 is located on the top surface. The part has a total depth of 100 units. Other dimensions include a 10-unit wide top flange, a 25-unit wide section, and a 30-unit high vertical section on the right. An arrow labeled 'X' indicates the direction of the X-axis.

Isometric view of a mechanical part. Dimensions include: overall length 120, overall width 60, overall height 45. The part features a base with a 60° chamfer on the left end, a central slot 40 units wide and 15 units deep, and a rear vertical plate with a semi-circular top (R30) and a circular hole (Ø30). The base has a 15-unit wide section on the left and a 10-unit wide section on the right. The rear plate is 20 units thick. The top surface of the base is 25 units high from the left edge and 12 units high from the right edge. The slot is 15 units wide at the top and 10 units wide at the bottom. The rear plate has a 15-unit wide section at the top and a 10-unit wide section at the bottom.

Isometric view of a mechanical part. Dimensions include: overall width 74, overall height 54, base thickness 22, front face width 42, top face width 26, hole diameter $\varnothing 26$, hole depth 10, hole offset 30, base offset 60, hole offset 16, hole diameter $\varnothing 44$, hole depth 40, hole offset 30, hole radius R30, and coordinate axes X and Y.

Isometric view of a mechanical part. The part consists of a base plate and a cylindrical riser. The base plate has a total length of 90, a width of 40, and a thickness of 8. It features a semi-circular cutout on the left side with a radius of 24. A central slot of width 32 and depth 8 is cut into the base plate. The cylindrical riser is mounted on the right side of the base plate, with an outer diameter of $\varnothing 56$ and an inner hole of diameter $\varnothing 32$. The height of the cylinder is 56. A small rectangular feature of width 6 is located on the top surface of the cylinder. Coordinate axes X and Y are shown at the bottom left.

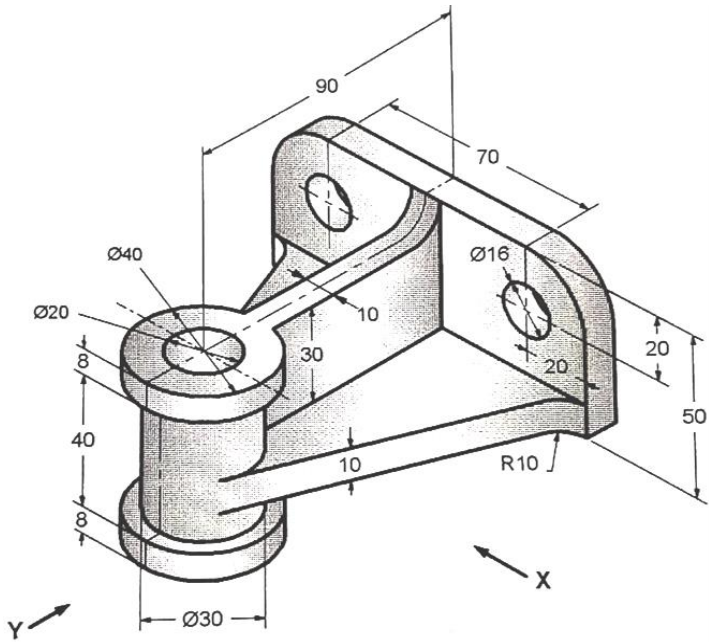
Isometric view of a mechanical part. The part consists of a base plate with a semi-circular end of radius $R50$ and a total width of 75 . The base plate has a thickness of 20 . A central cylindrical feature has an outer diameter of $\varnothing 50$ and an inner diameter of $\varnothing 32$, with a height of 20 . A vertical support of diameter 12 connects the base to a top flange. The top flange has an outer diameter of $\varnothing 70$ and an inner diameter of $\varnothing 50$, with a thickness of 30 . The total height of the part is 80 . A fillet of radius 10 transitions between the base and the support. Coordinate axes X and Y are shown at the bottom left.

Isometric view of a mechanical part. Dimensions include: 90, 72, 12, 10, 15, 30, 72, 55, 35, Ø20, Ø45, Ø25, Ø50, R20. Coordinate axes X and Y are shown.

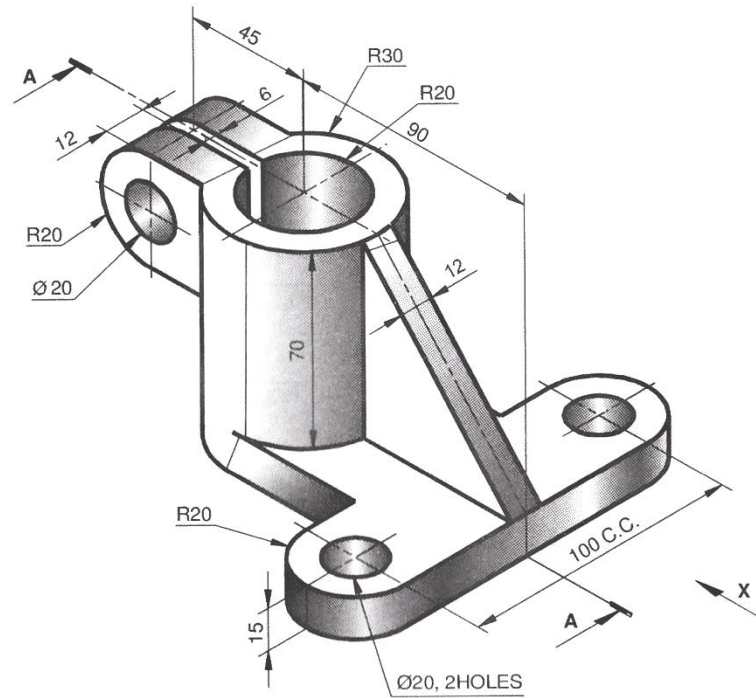
Isometric view of a mechanical part. Dimensions include: overall height 45, top flange thickness 15, vertical support thickness 10, horizontal base thickness 10, and horizontal base width 15. Radii are labeled R15. A central hole is labeled Ø15, 4 HOLES. Coordinate axes X and Y are shown, along with a section line A-A.

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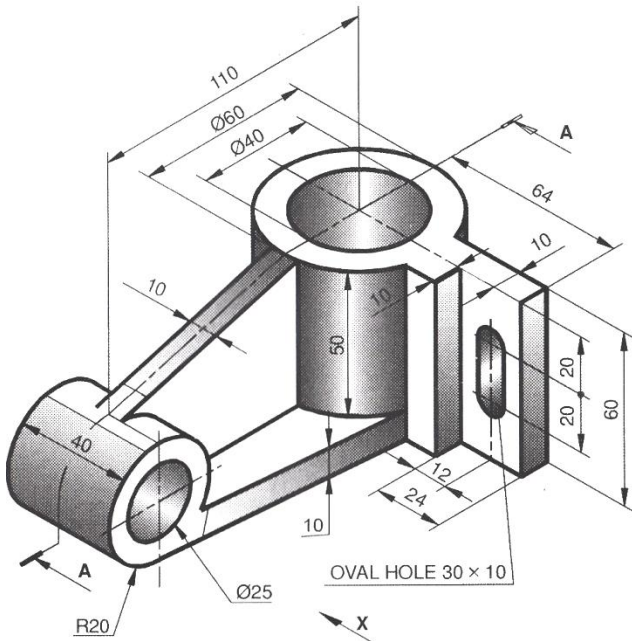
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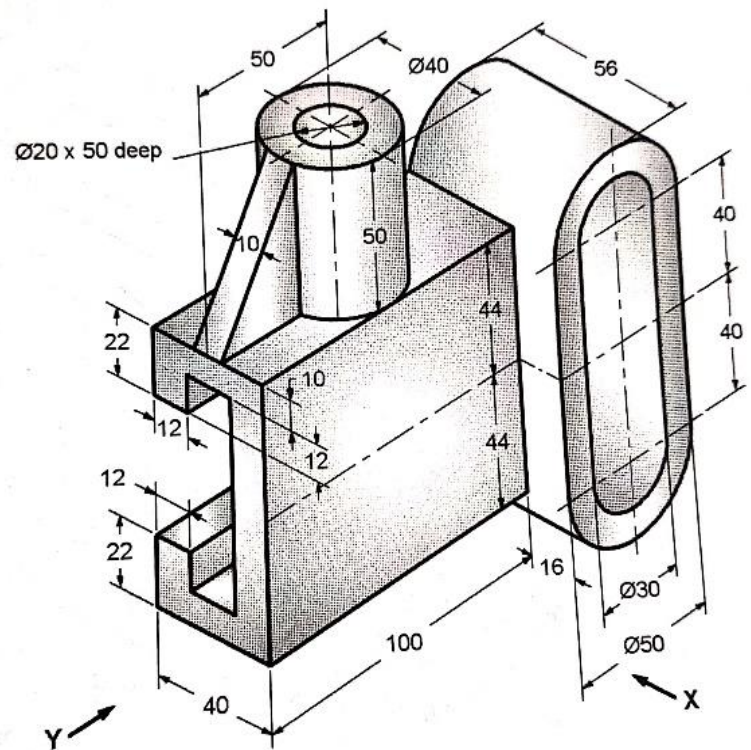
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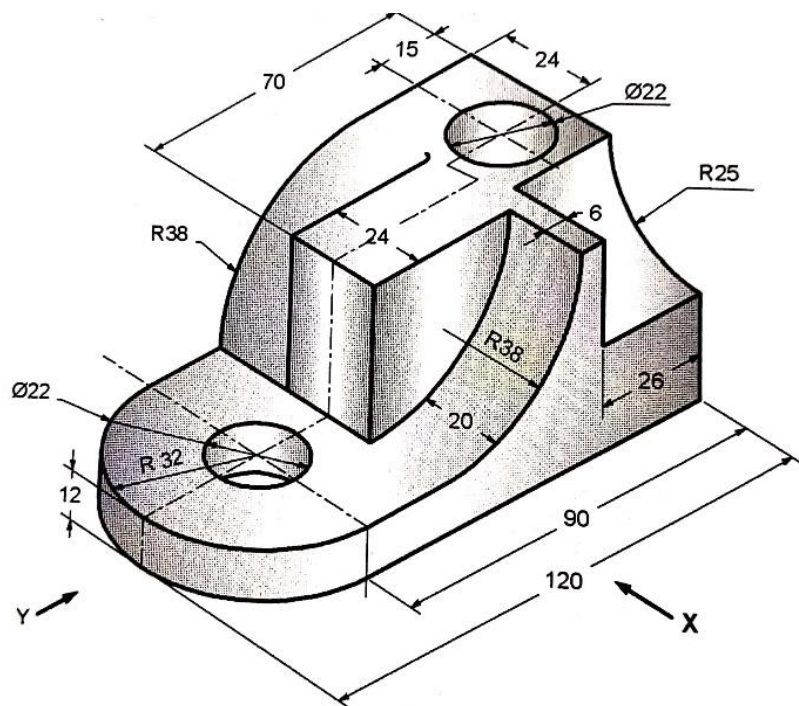
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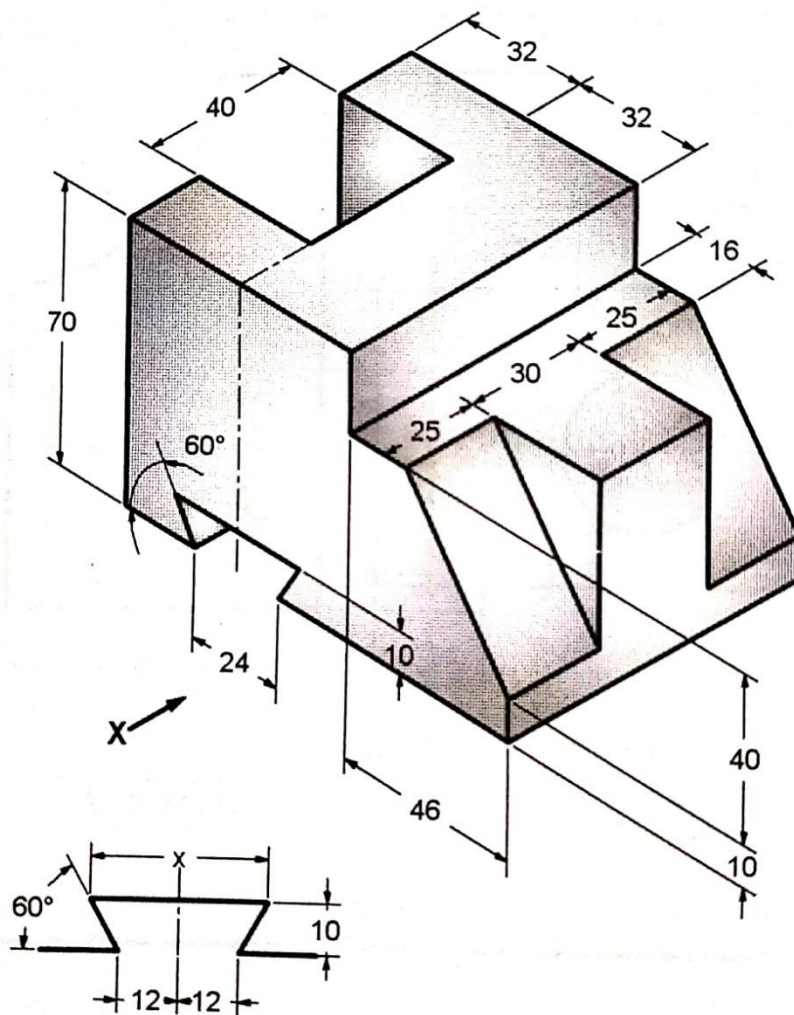
30



31.



32.



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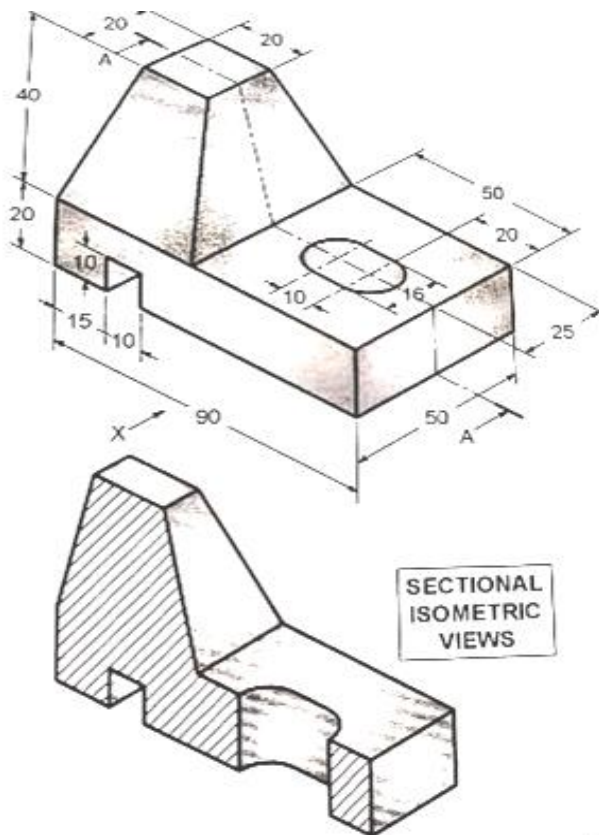
Department of First Year Engineering

Sub: - Engineering Graphics I

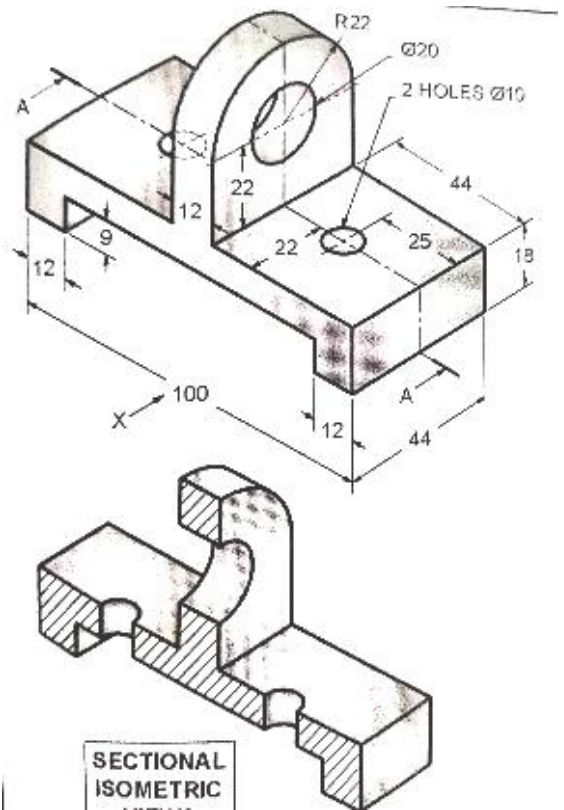
Unit: - 04 - Orthographic Projections

SECTIONAL VIEWS:

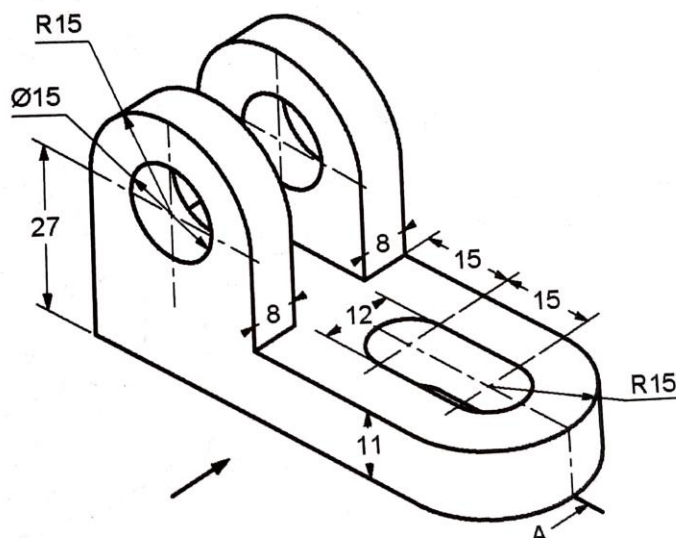
1.



2.



3.



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An isometric drawing of a mechanical component. It features a main vertical cylinder with an outer radius of R35 and an inner hole with a radius of R20. The height of the main cylinder is 50. A horizontal cylindrical arm, with a radius of R20 and a length of 12, connects the main cylinder to a smaller vertical cylinder. The smaller cylinder has a height of 45 and a base radius of 30. The base of the entire assembly is a rectangular plate with a width of 50 and a thickness of 15. A dimension of 12 indicates the distance from the center of the main cylinder to the center of the arm. A dimension of 5 indicates the distance from the center of the arm to the center of the smaller cylinder. A dimension of 100 indicates the total height from the base to the top of the main cylinder.

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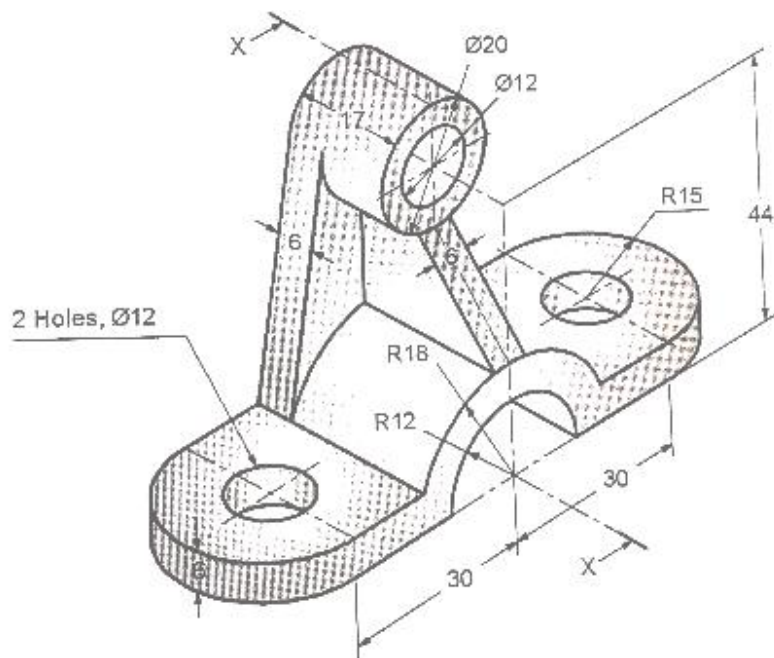
Isometric view of a mechanical part. The part consists of a base plate and a vertical cylindrical section. The base plate has a total length of 113, a width of 60, and a thickness of 14. A central hole with a diameter of $\varnothing 30$ is located 28 units from the front face. A vertical cylindrical section with an outer diameter of $\varnothing 60$ and an inner hole of $\varnothing 30$ is attached to the base. The cylindrical section has a height of 50 and a base diameter of 68. Section lines A-A and X-X are indicated.

Isometric view of a mechanical part. The part consists of a base block with a semi-circular end and a vertical rectangular section. A conical top is mounted on the vertical section. Dimensions are given in millimeters. Key features include:

- Top circular face: Outer diameter $\varnothing 40$, inner hole diameter $\varnothing 20$.
- Vertical section: Total height 60 (40 + 20), width 40, and a central rectangular cutout with a width of 10 and a height of 20.
- Base block: Total length 80, semi-circular end with a radius of 12, and a central rectangular cutout with a width of 36 and a height of 20.
- Bottom circular face: Outer diameter $\varnothing 60$, inner hole diameter $\varnothing 30$.
- Section lines A-A are indicated.

[illegible][illegible]

12.



13.

