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UNIT-V

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Content

Isometric Projections: Principles of Isometric Projection – Isometric Scale – Isometric Views – Conventions – Isometric Views of Lines, Plane Figures, Simple and Compound Solids – Isometric Projection of objects having non- isometric lines. Isometric Projection of Spherical Parts.

Conversion of Isometric Views to Orthographic Views and Vice-versa –Conventions

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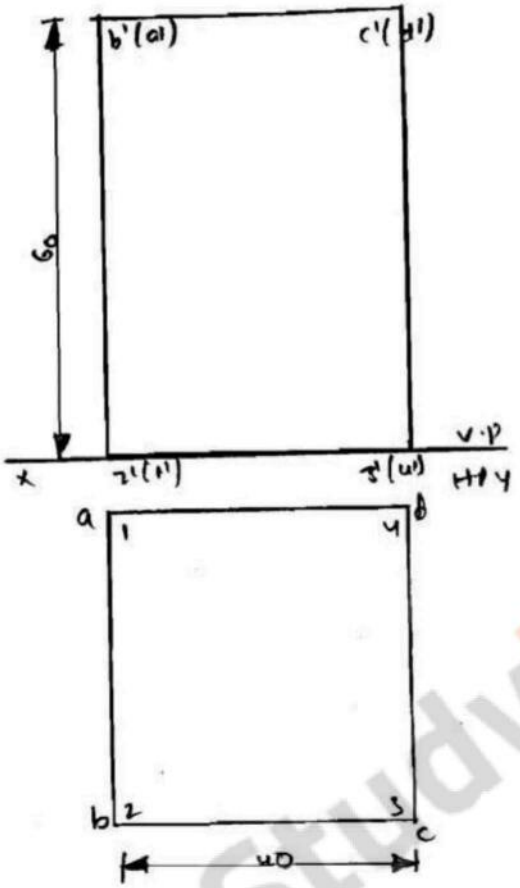
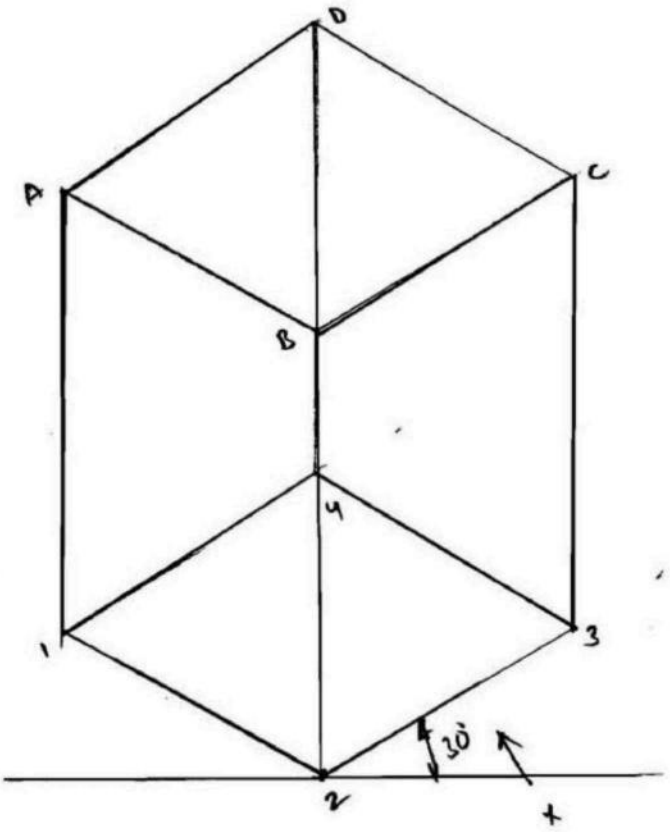
Isometric Projections and isometric views-

1) Draw an isometric view of a square Prism, base side 40mm and 60mm long resting on the H.P

a) on its base with AB's ⊥er to the H.P





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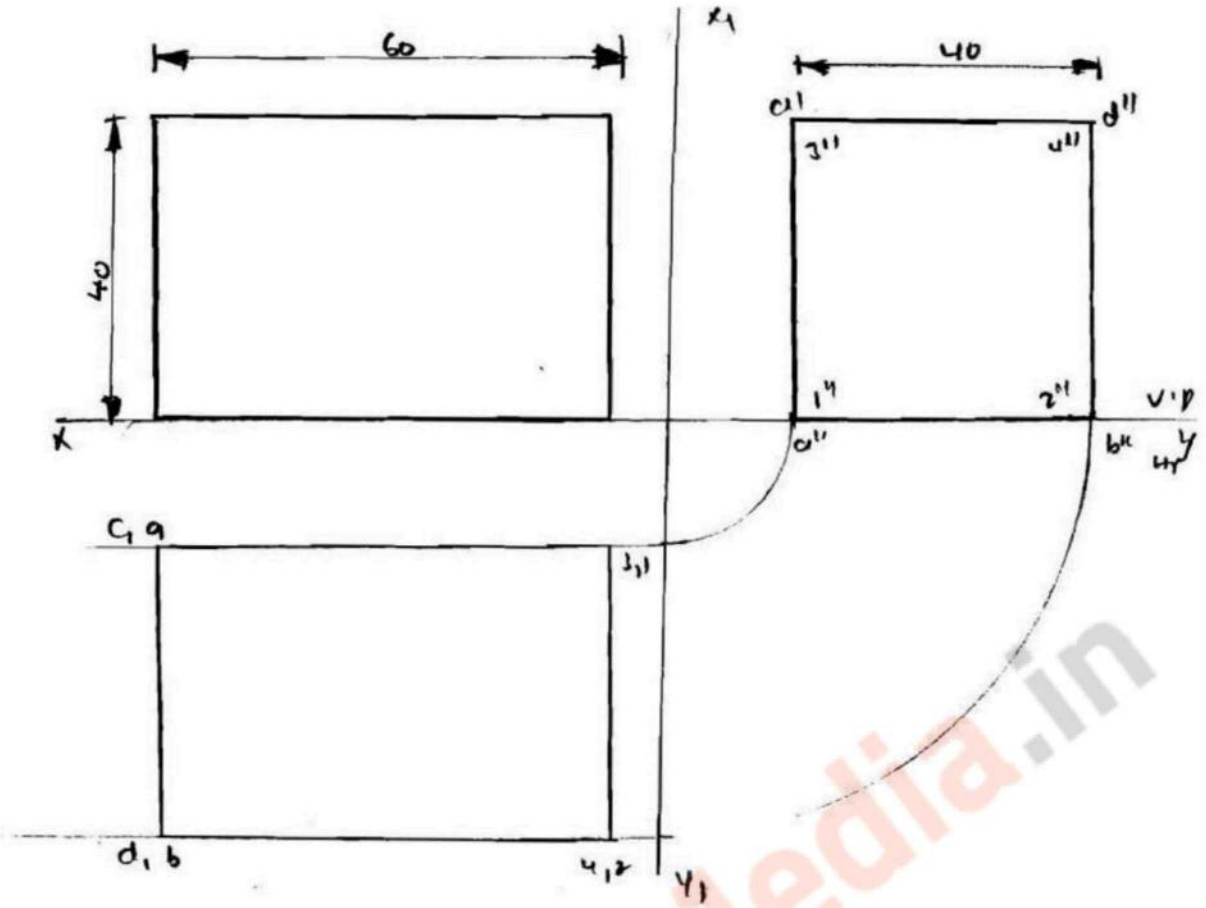
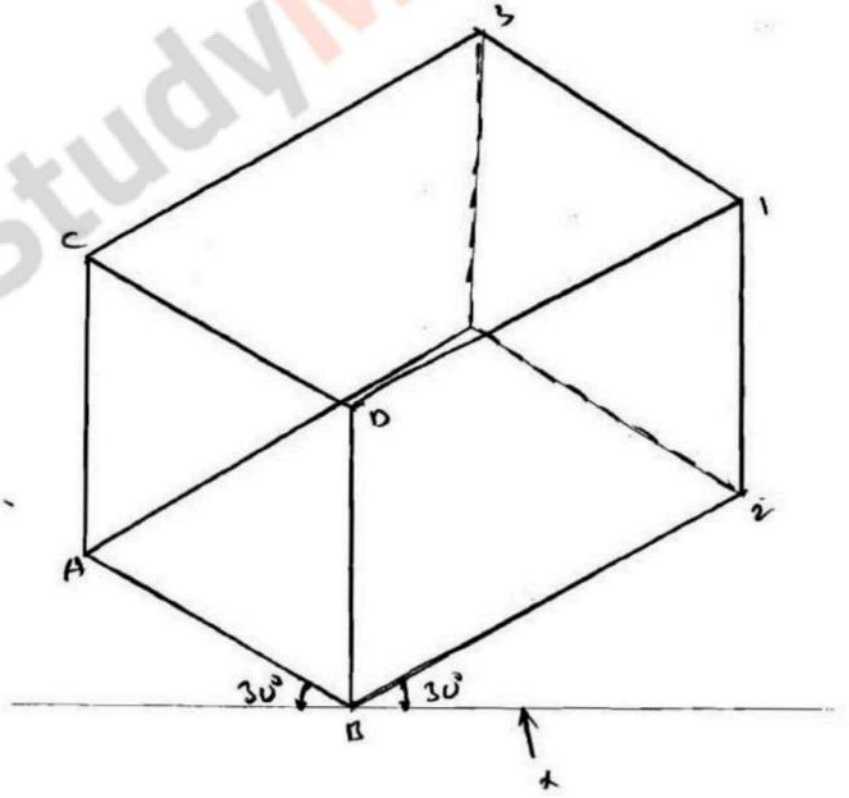
c) on its rectangular face with axis ⊥ to V.P





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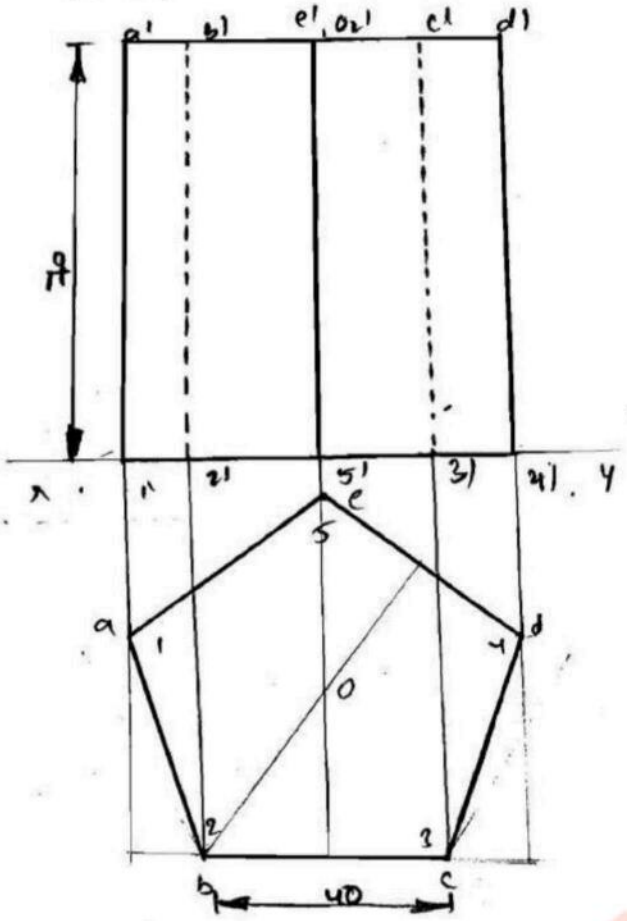
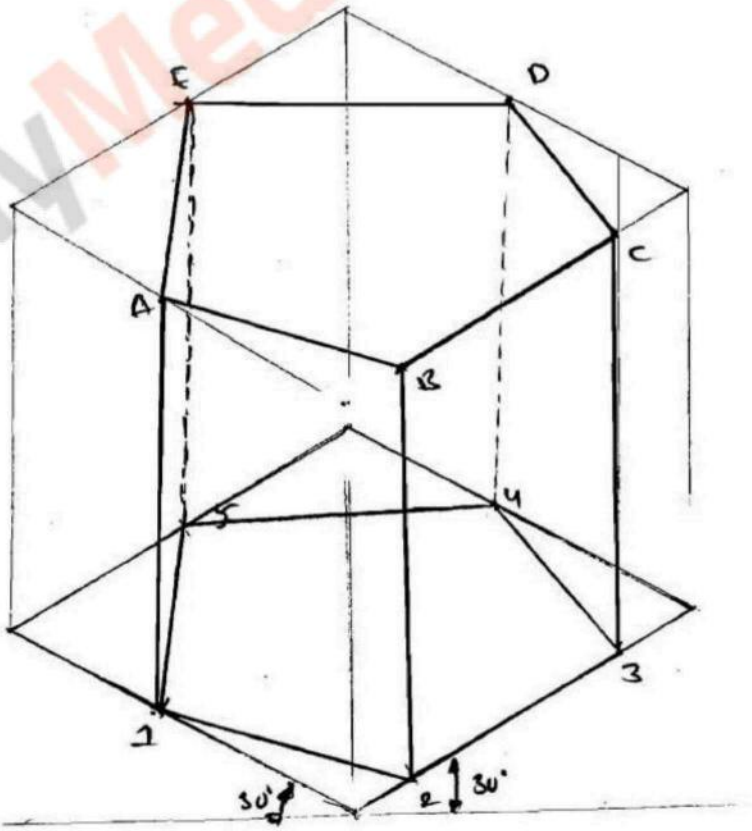
... rolling on its base on the H.P. with an edge of the base ⊥ to V.P





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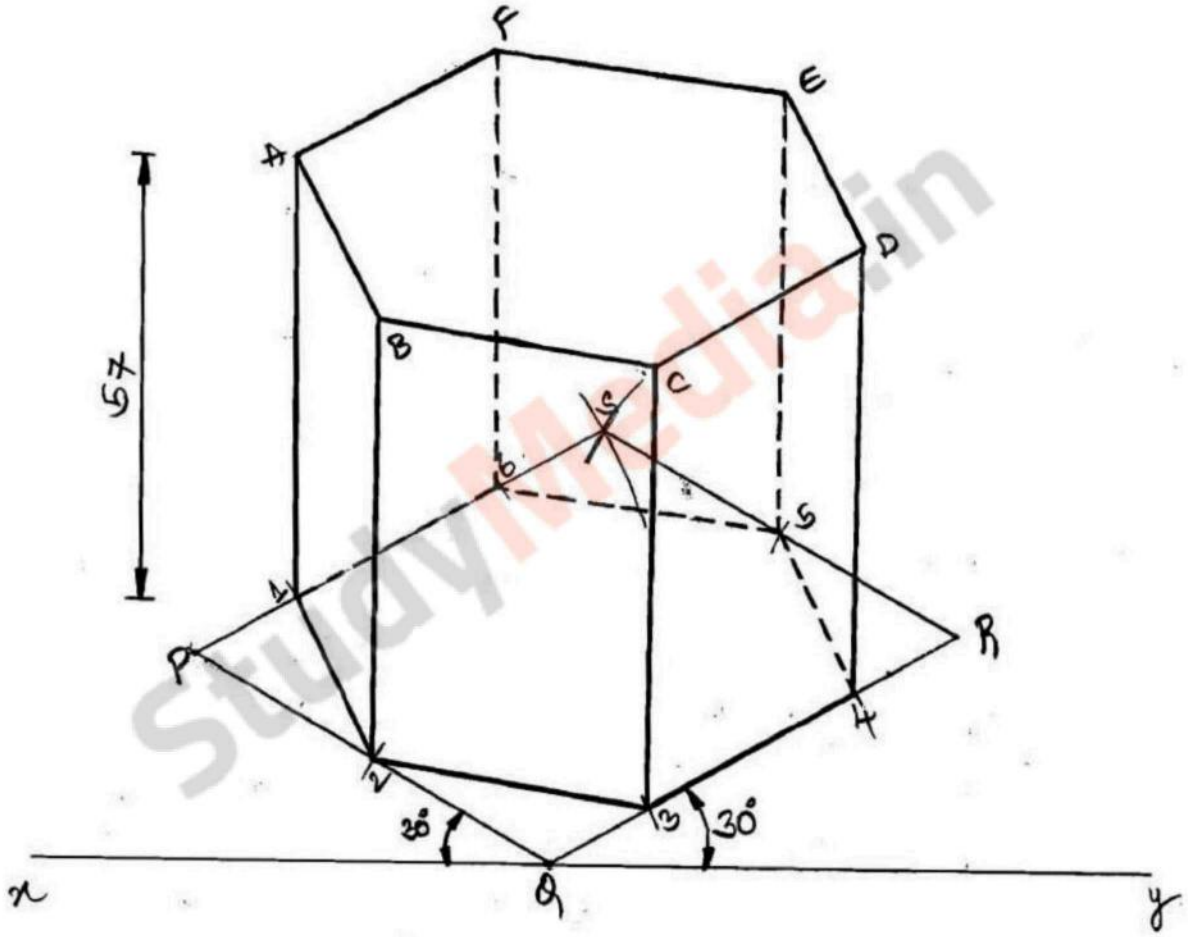
* Isometric View (Hexagonal Prism)



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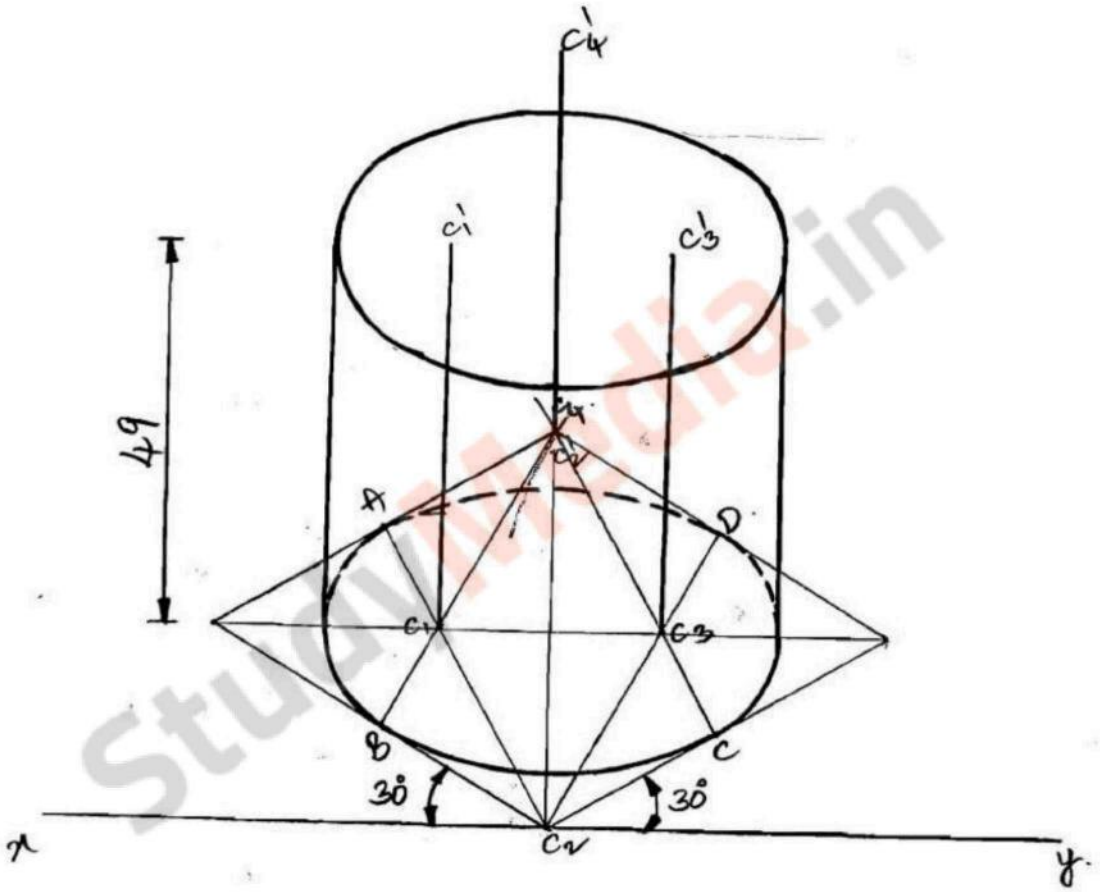
Isometric View (Cylinder)



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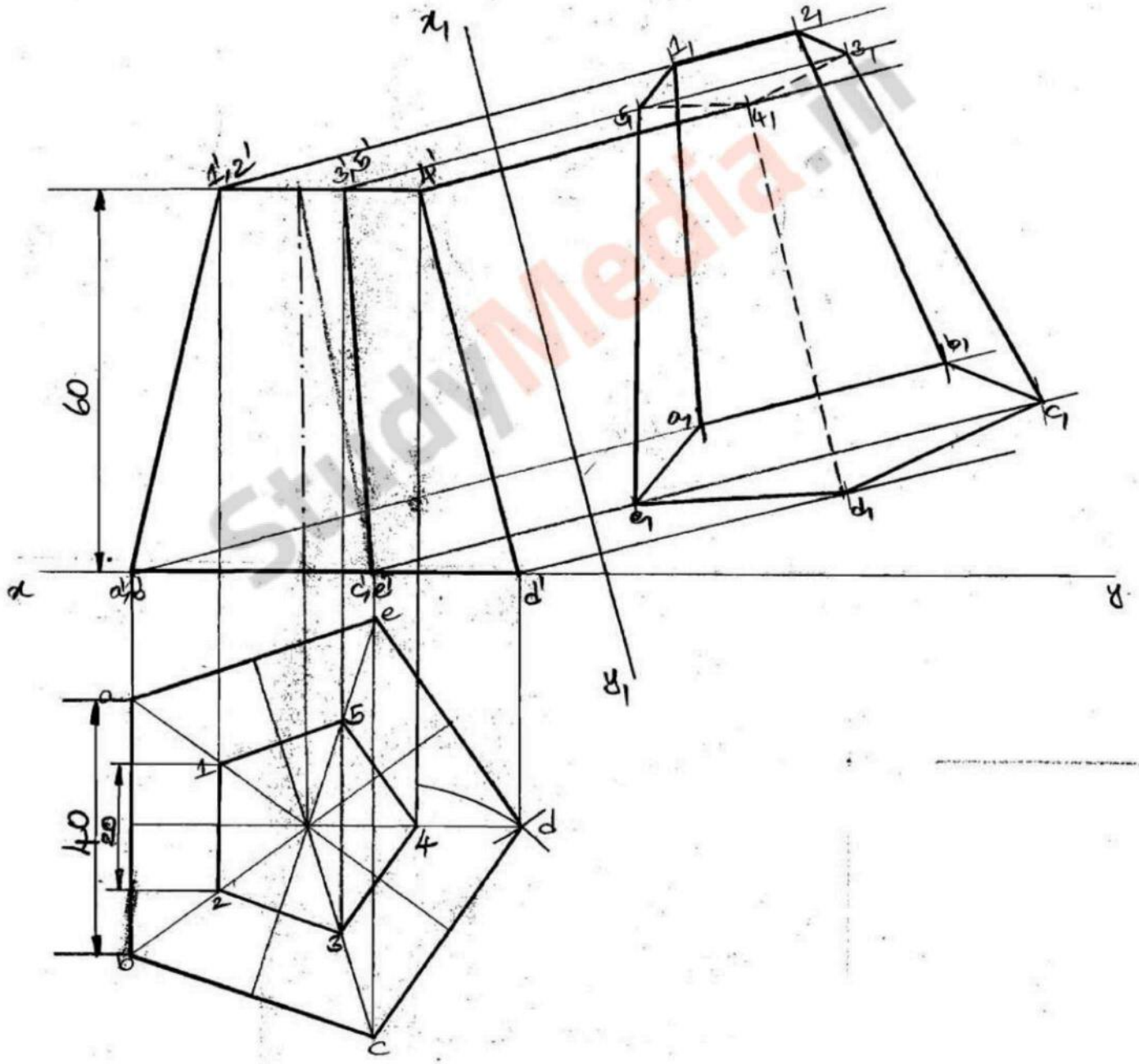
Isometric View (Pentagonal Frustum)



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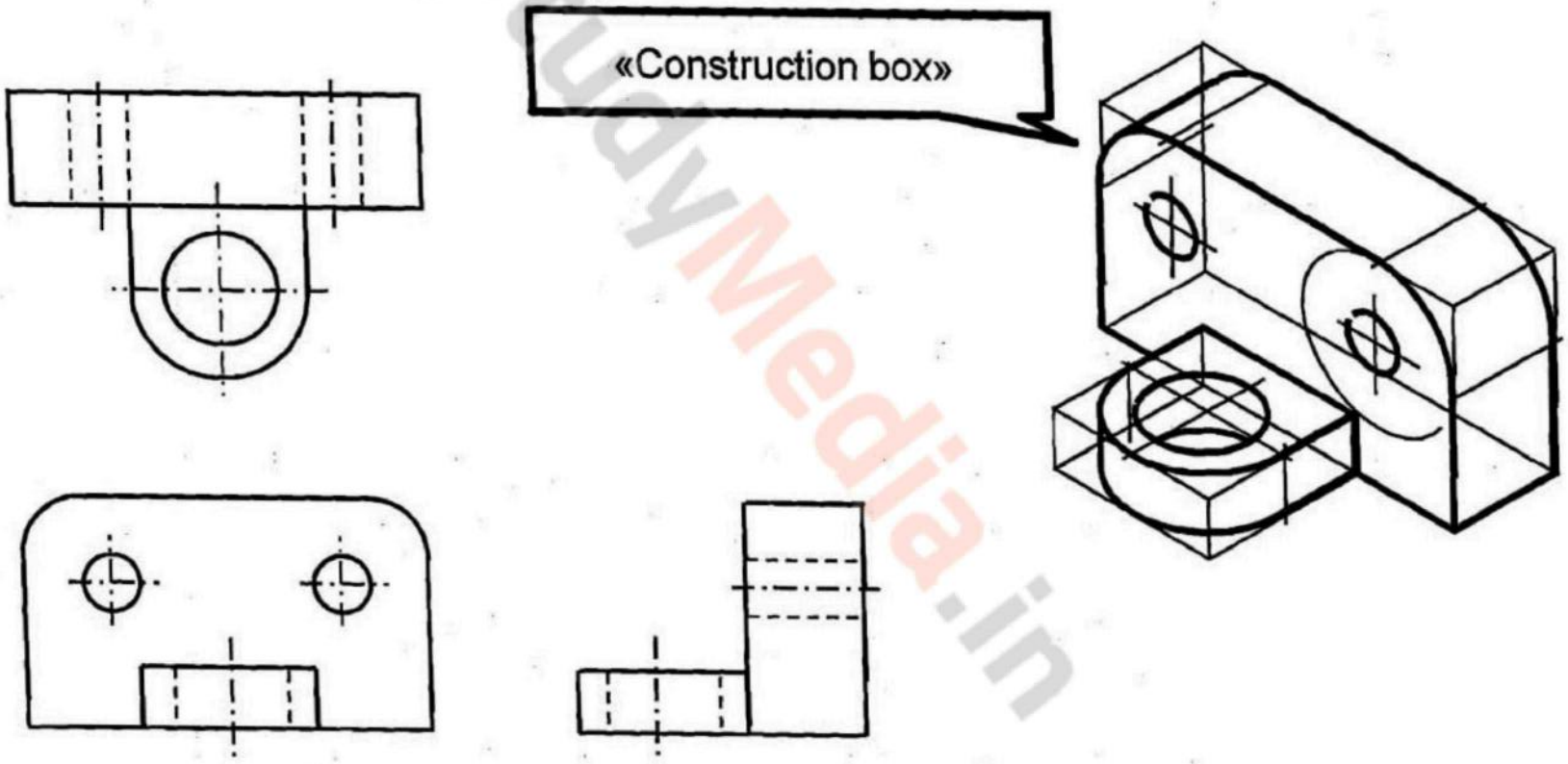
Isometric drawing

How to draw an object containing rounded parts



ORTHOGRAPHIC MULTI-VIEW PROJECTION

ISOMETRIC PROJECTION

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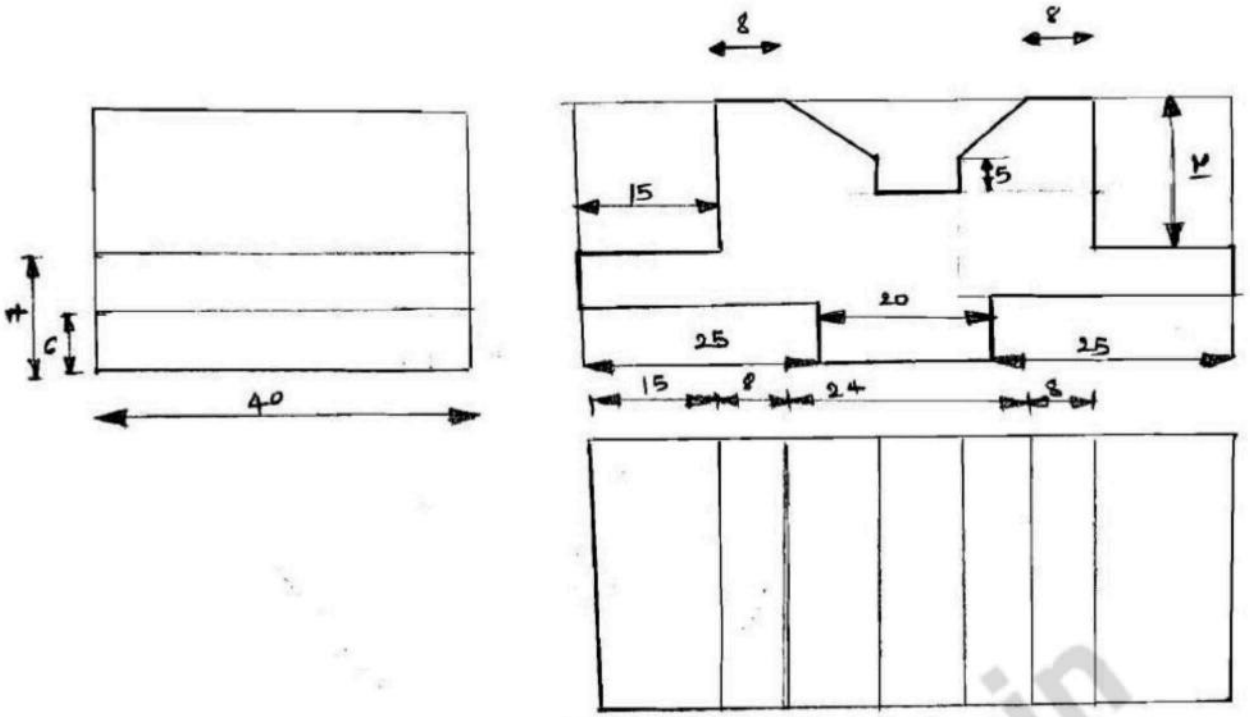

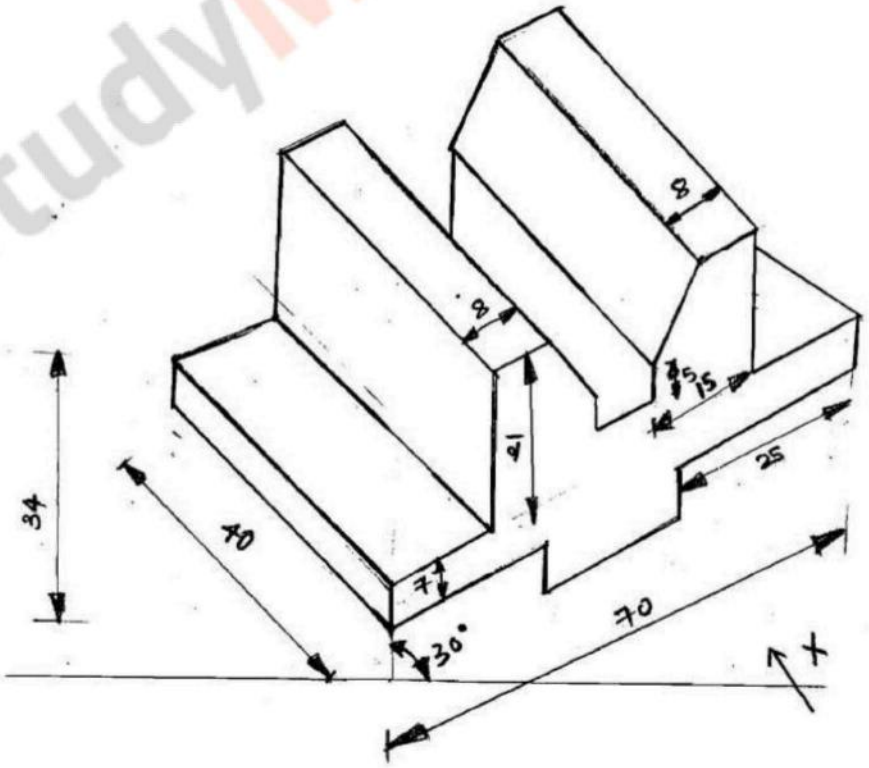

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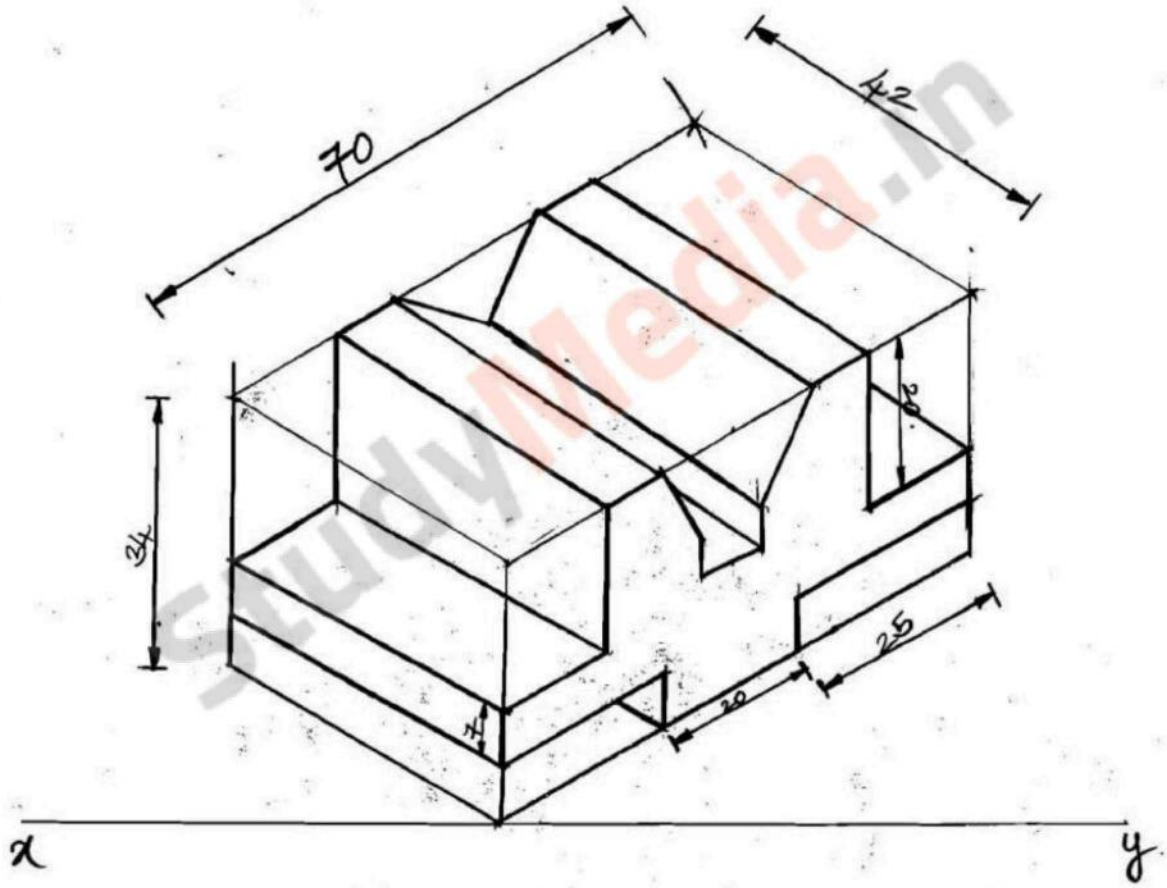
Isometric View



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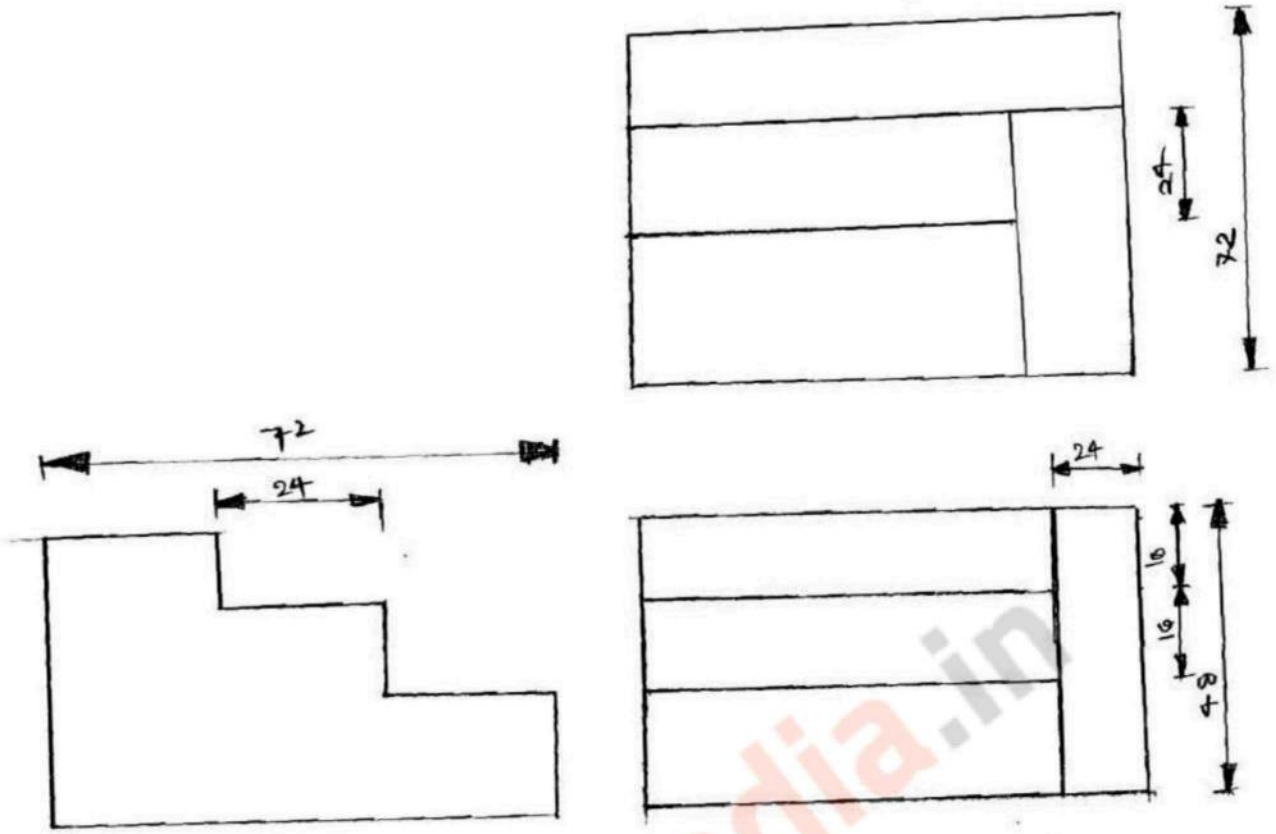

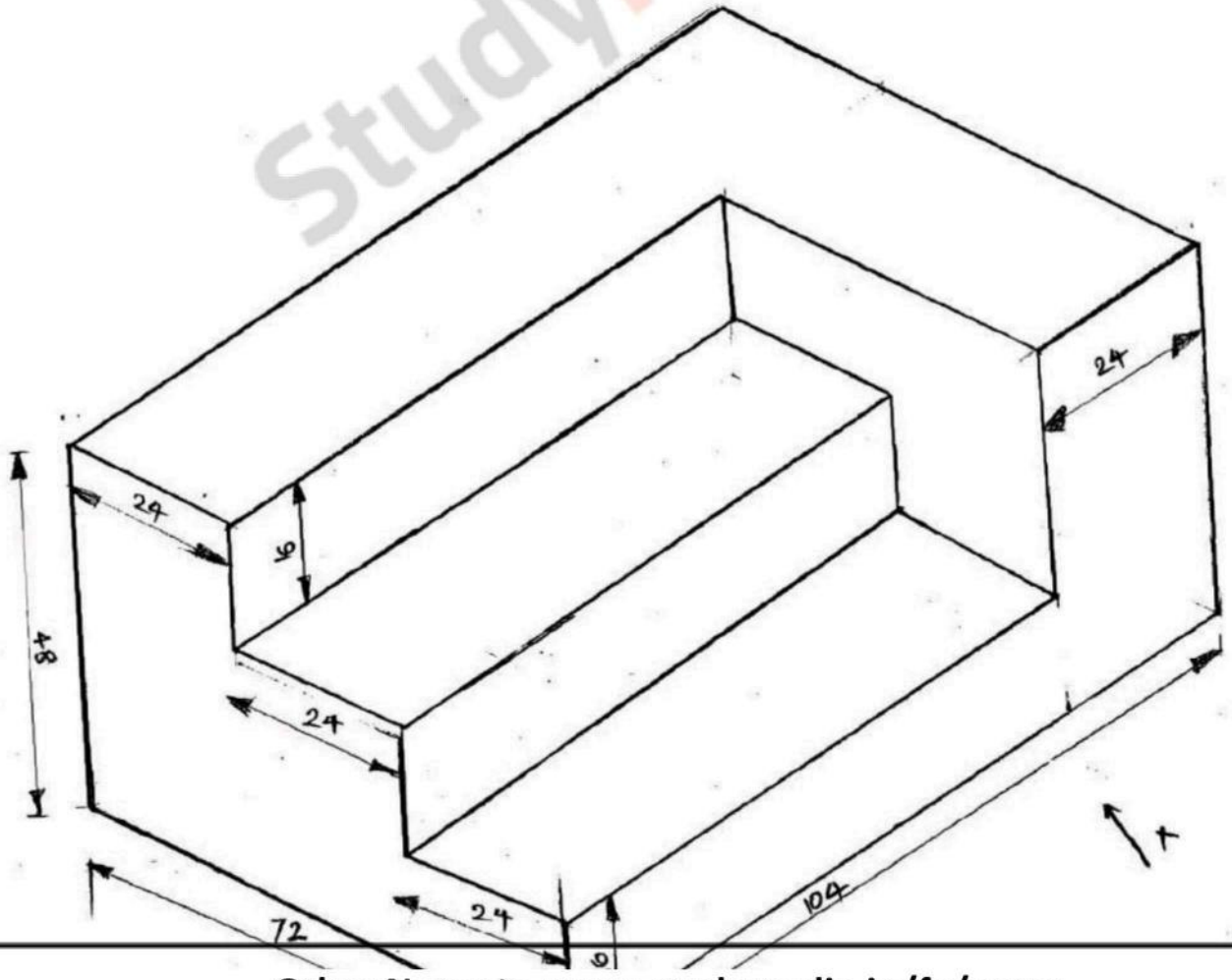

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Steps to draw projections

- Identify surfaces perpendicular or inclined to the view
- Surfaces parallel to the view would not be visible in that view.
- First draw horizontal and vertical reference planes (easily identifiable on drawing)
- Start drawing from the reference planes.

Example - 1

Draw the orthographic projections of Fig. 1

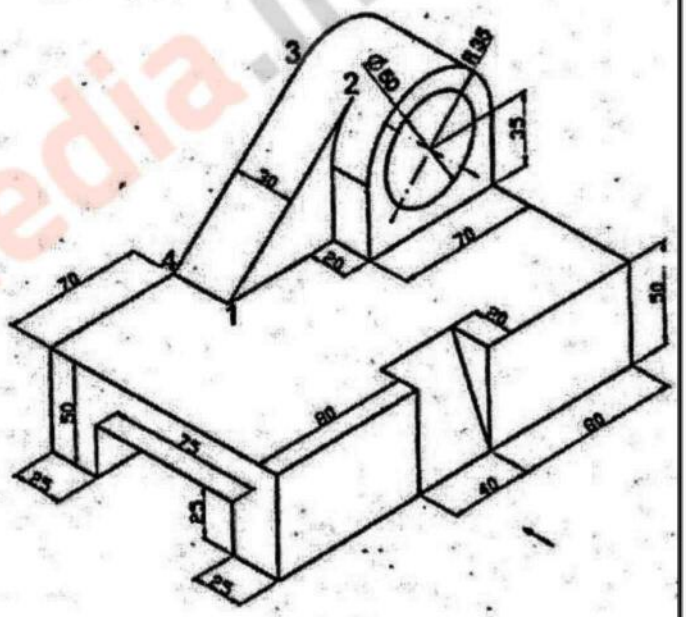

Fig. 1

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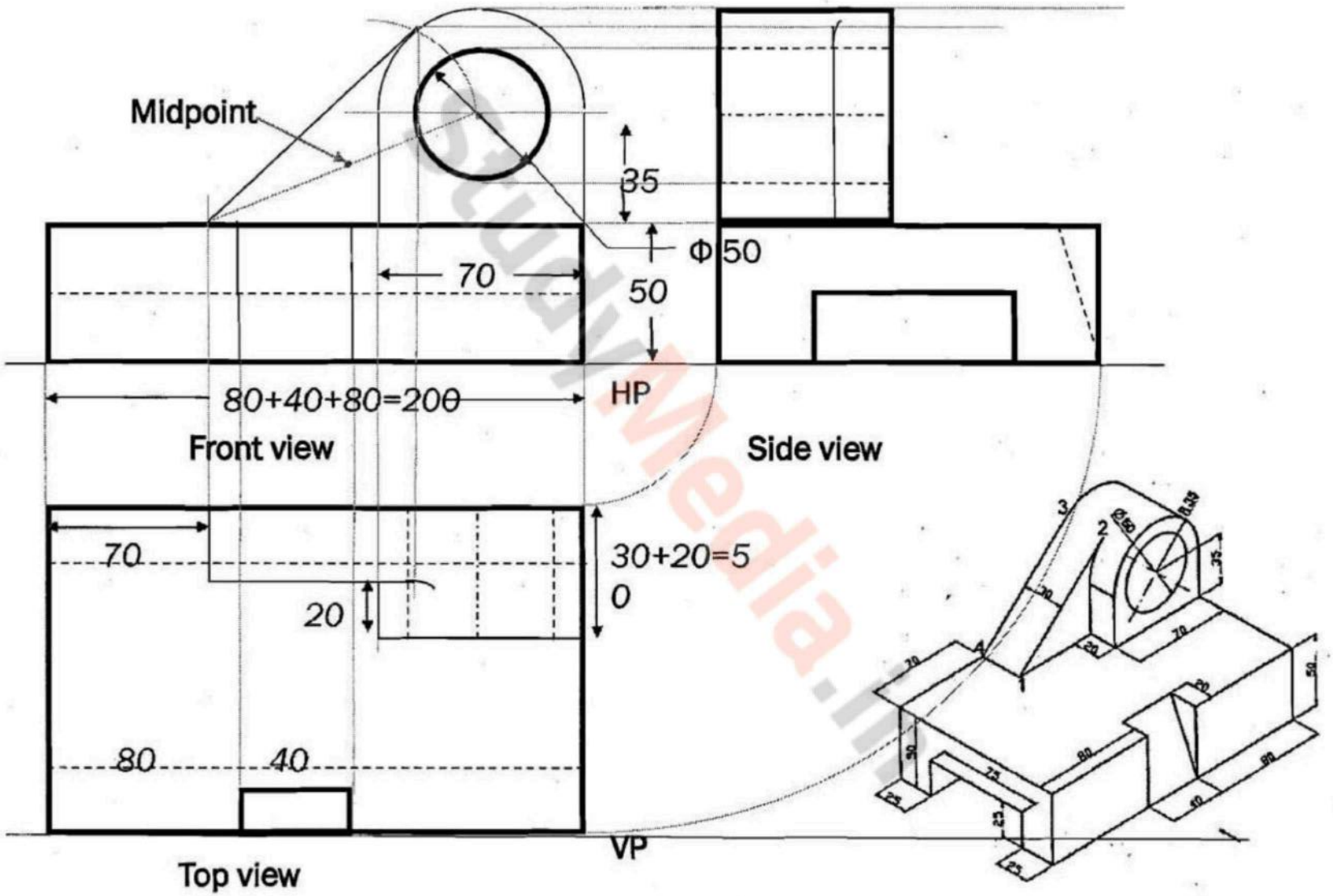

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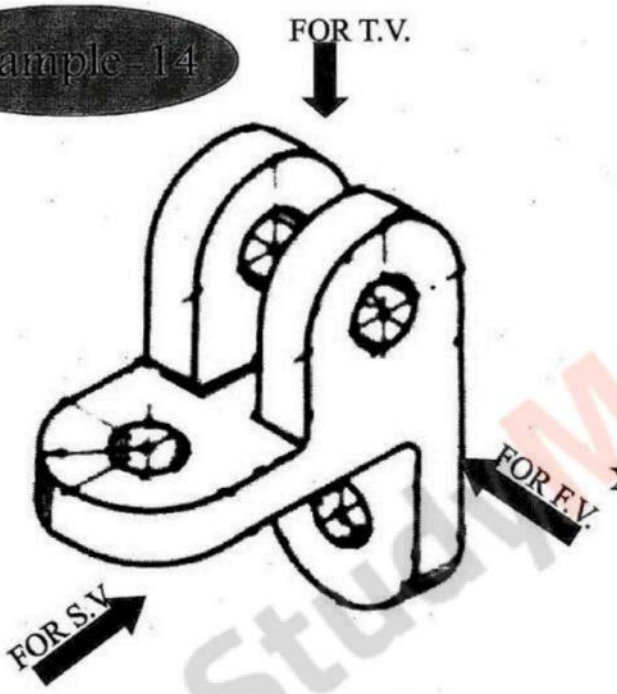
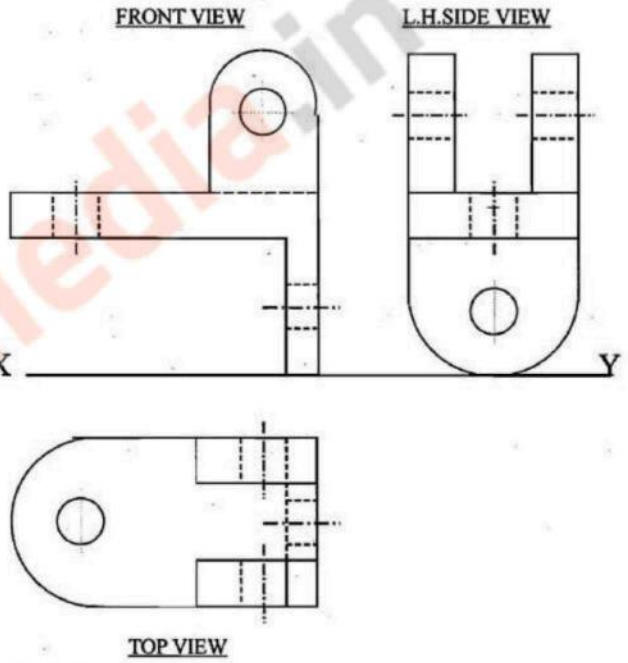
Example - 14



ORTHOGRAPHIC PROJECTIONS



PICTORIAL PRESENTATION IS GIVEN

DRAW THREE VIEWS OF THIS OBJECT
BY FIRST ANGLE PROJECTION METHOD

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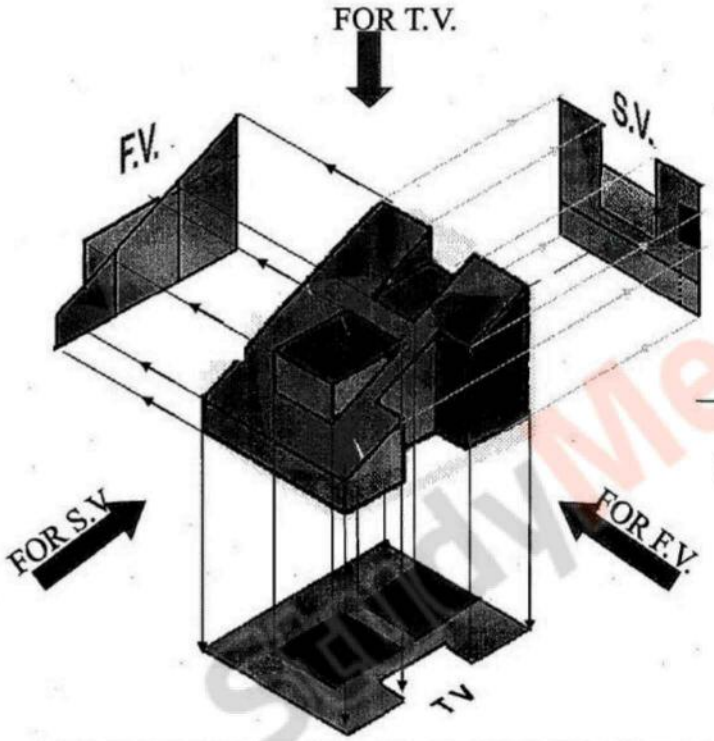
Example - 3



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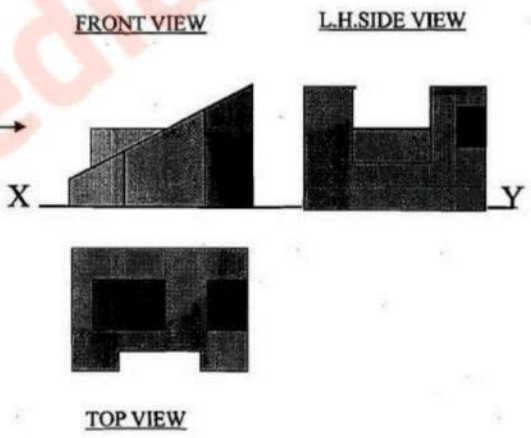
ORTHOGRAPHIC PROJECTIONS



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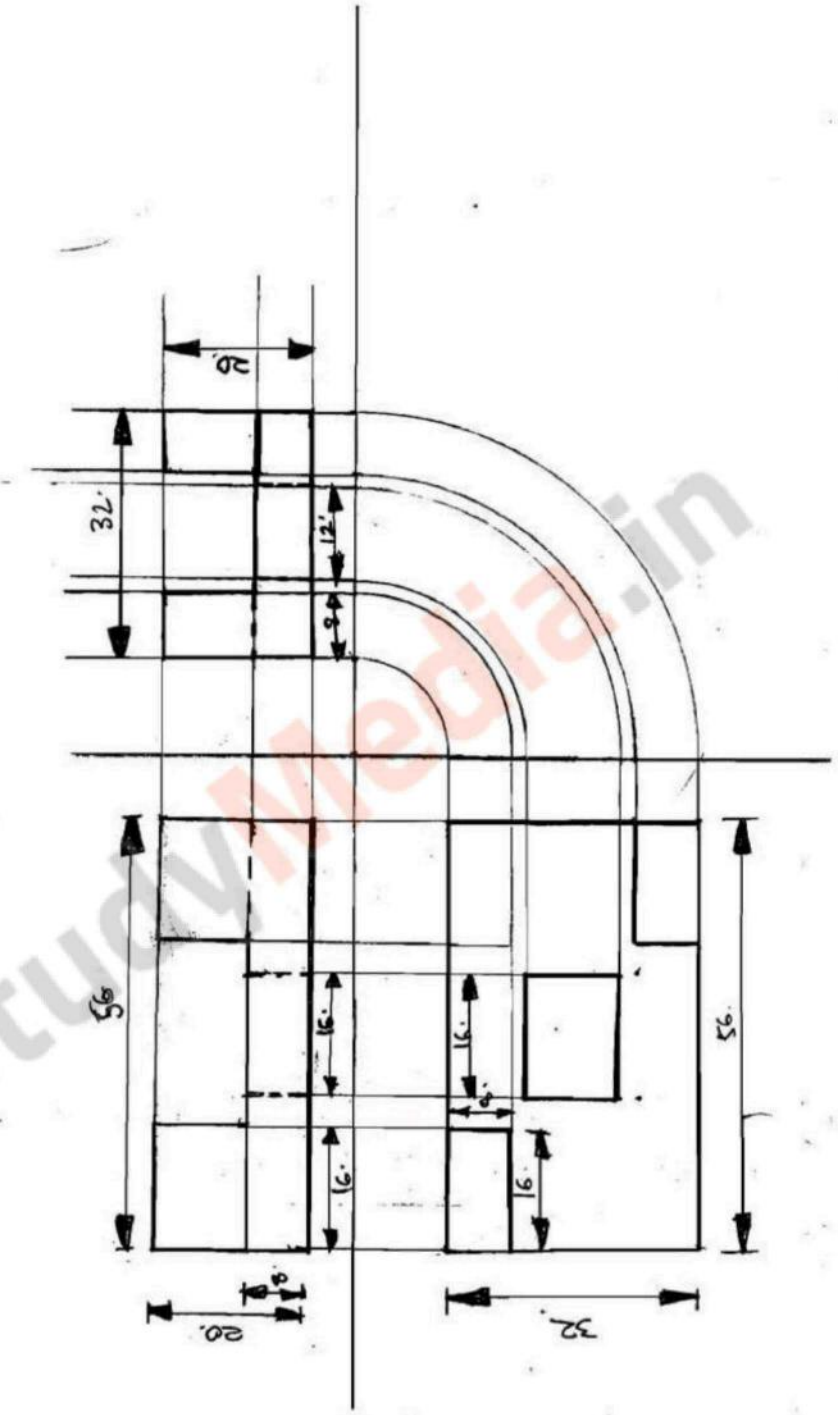
* Orthographics Views (First Angle Projection)



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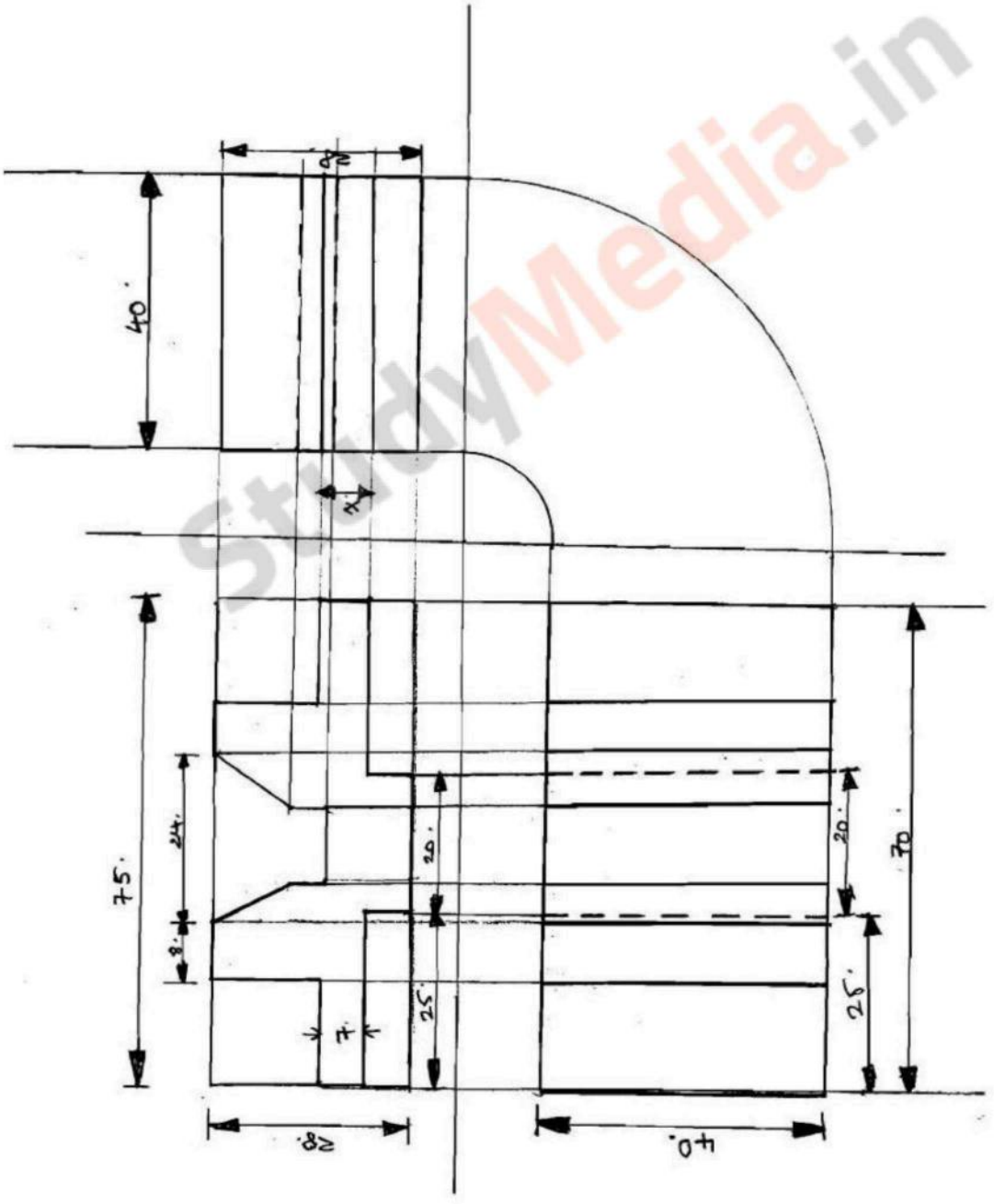

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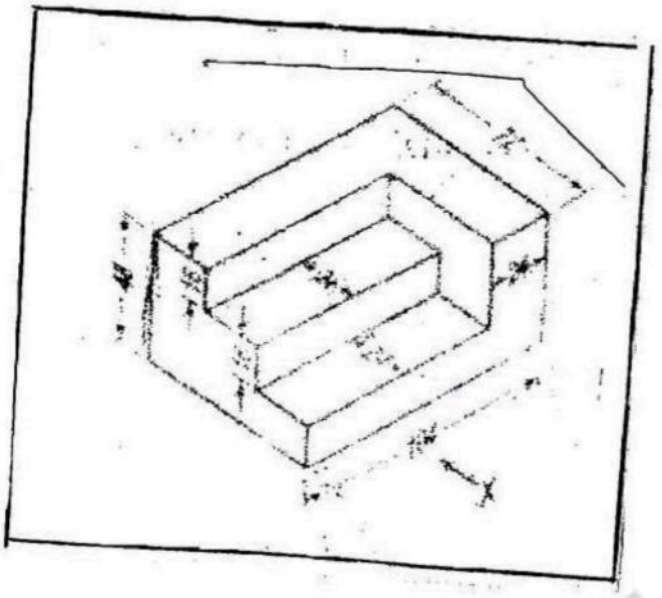

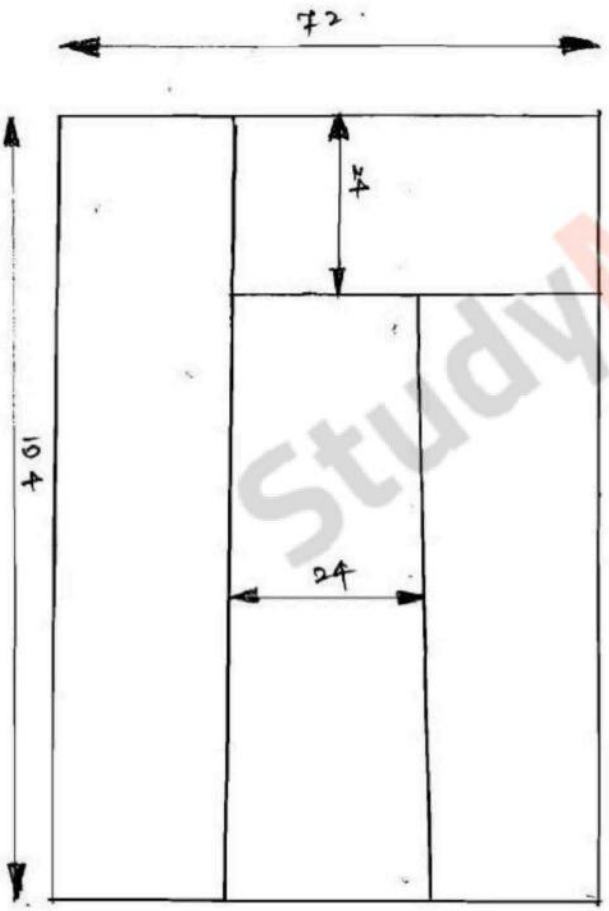

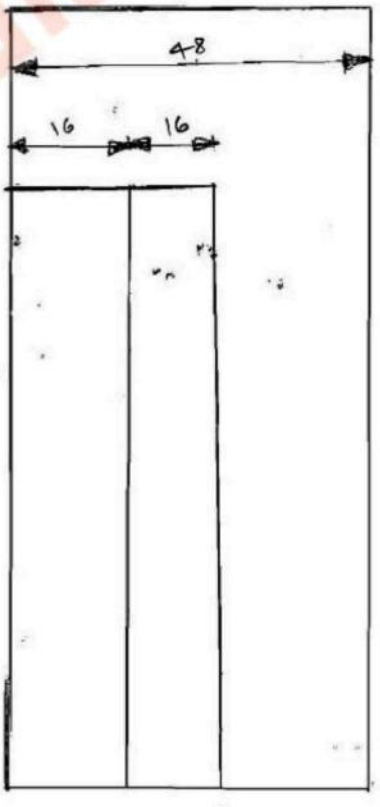

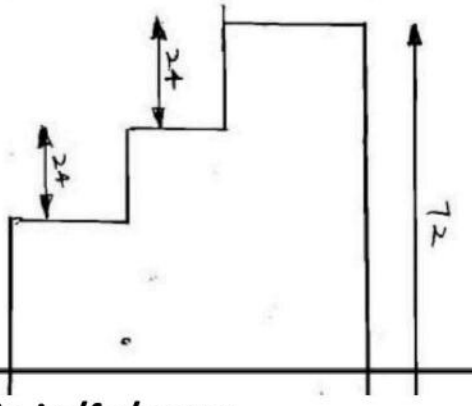

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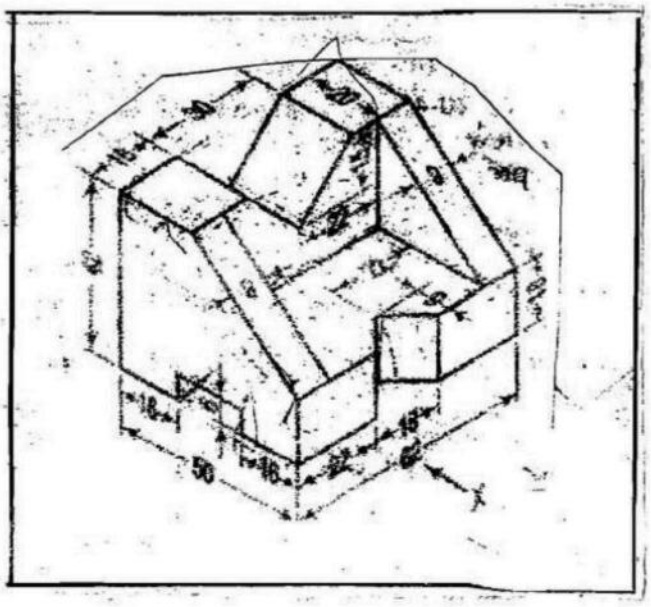

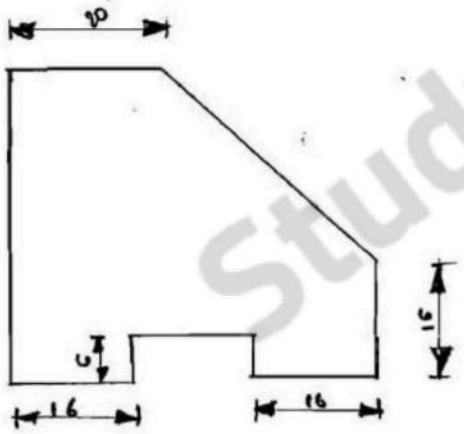

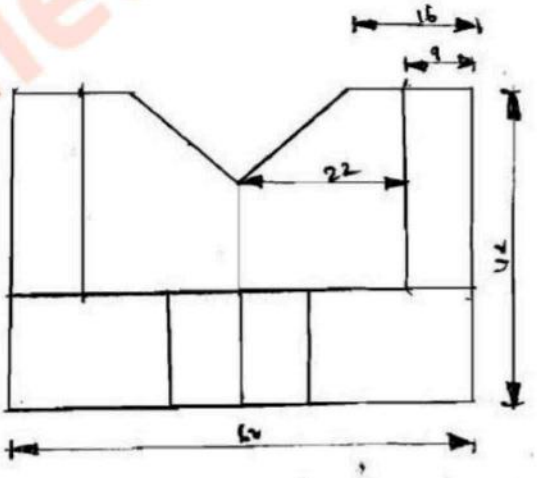

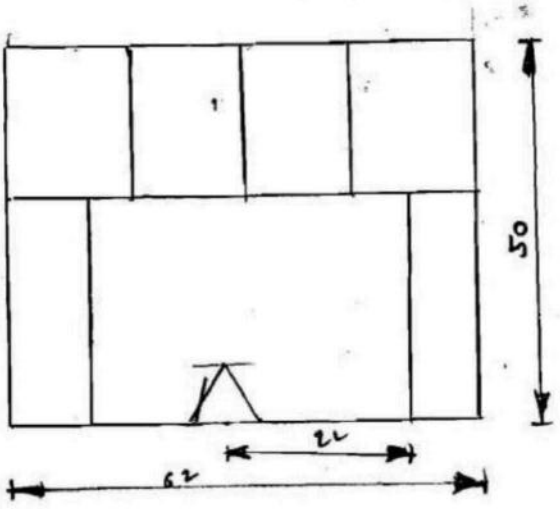

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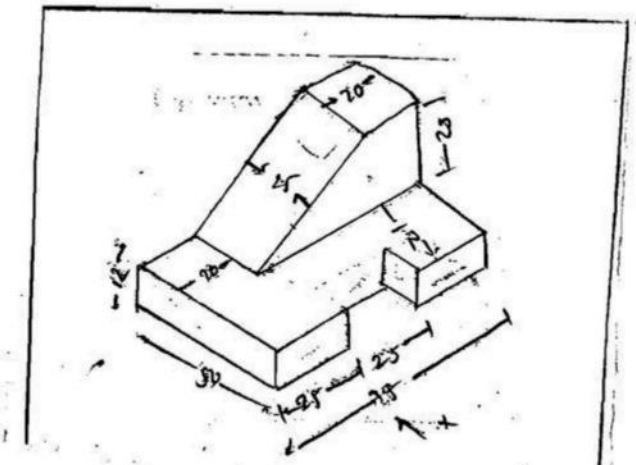

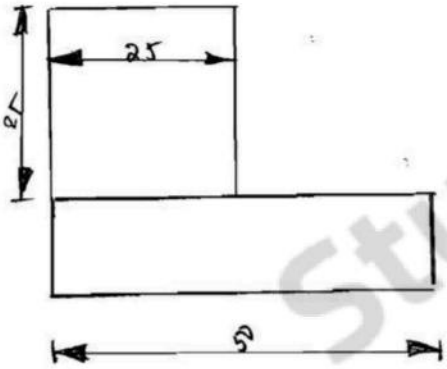

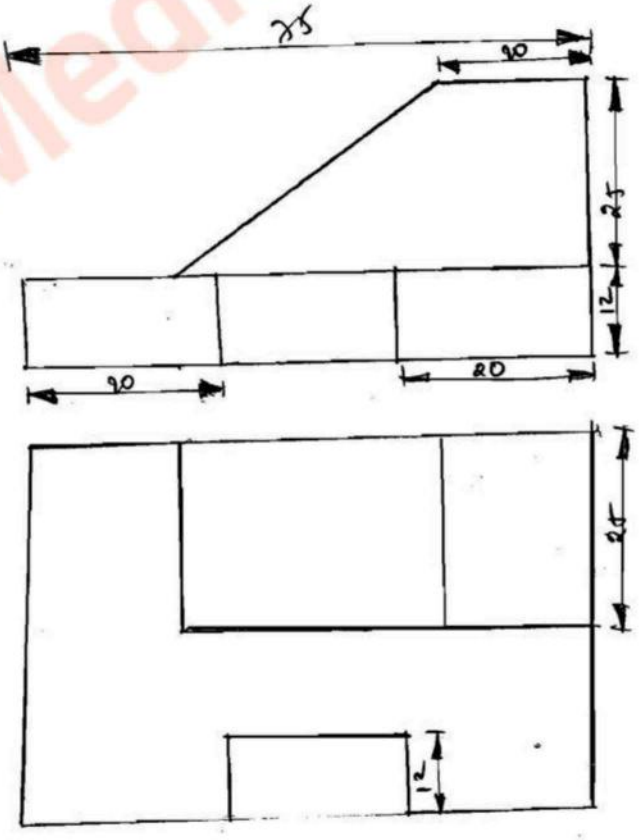

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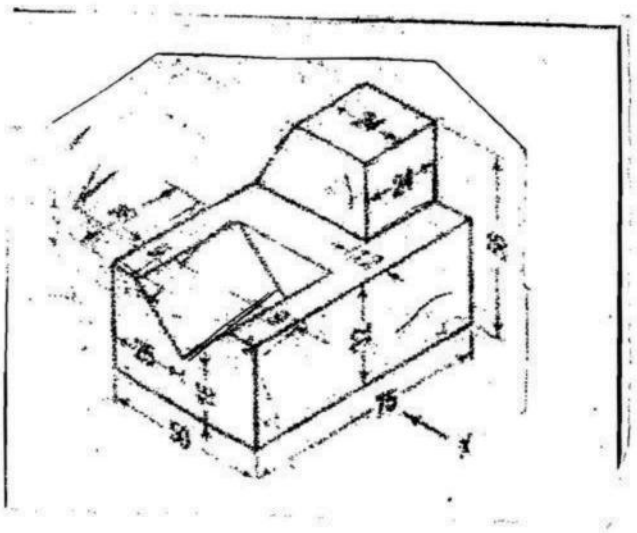

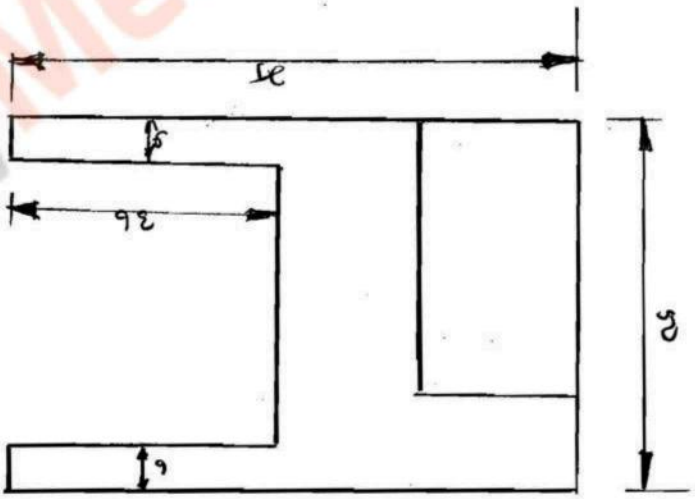

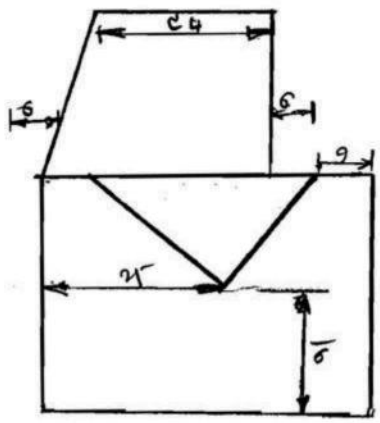

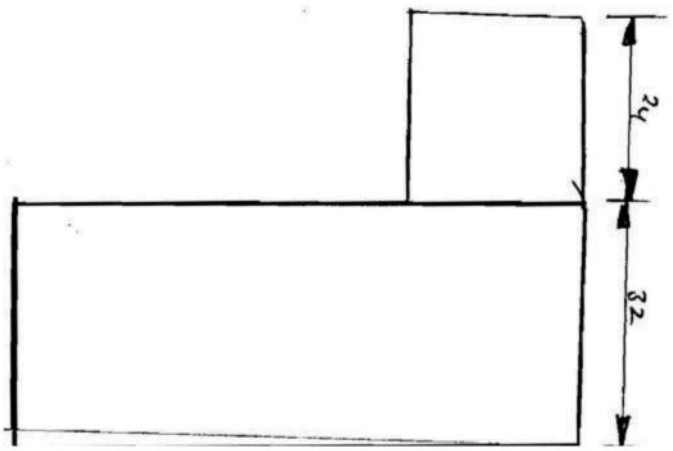

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