## Pictorial Drawings



## Axonometric Projection



Type of axonometric drawing


Axonometric axis None of angles are equal.

## Oblique Projection

Oblique drawing angle


## Isometric Drawing

## Isometric Drawing

Isometric drawing is a drawing drawn on an isometric axes using full scale.

Isometric drawing
(Full scale)


Full scale

## Distance in Isometric Drawing

- True-length distances are shown along isometric lines.
Isometric line is the line that run parallel to any of the isometric axes.



## Isometric Sketching

## Sketch from an actual object

## STEPS

1. Positioning object.
2. Select isometric axis.
3. Sketch enclosing box.
4. Add details.
5. Darken visible lines.


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## STEPS

1. Positioning object.
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3. Sketch enclosing box.
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Note In isometric drawing, hidden lines are omitted unless they are absolutely necessary to completely describe the object.

## Sketch from multiview drawing

1. Interprete the meaning of lines/areas in multiview drawing.
2. Locate the lines or surfaces relative to isometric axis.


Example 2 : Object has inclined surfaces


Example 3 : Object has inclined surfaces


Example 4



## Circle \& Arc in Isometric

- In isometric drawing, a circle appears as an ellipse.


## Steps

1. Locate the center of an ellipse.
2. Construct an isometric square.
3. Sketch arcs that connect the tangent points.


## Example 5



