



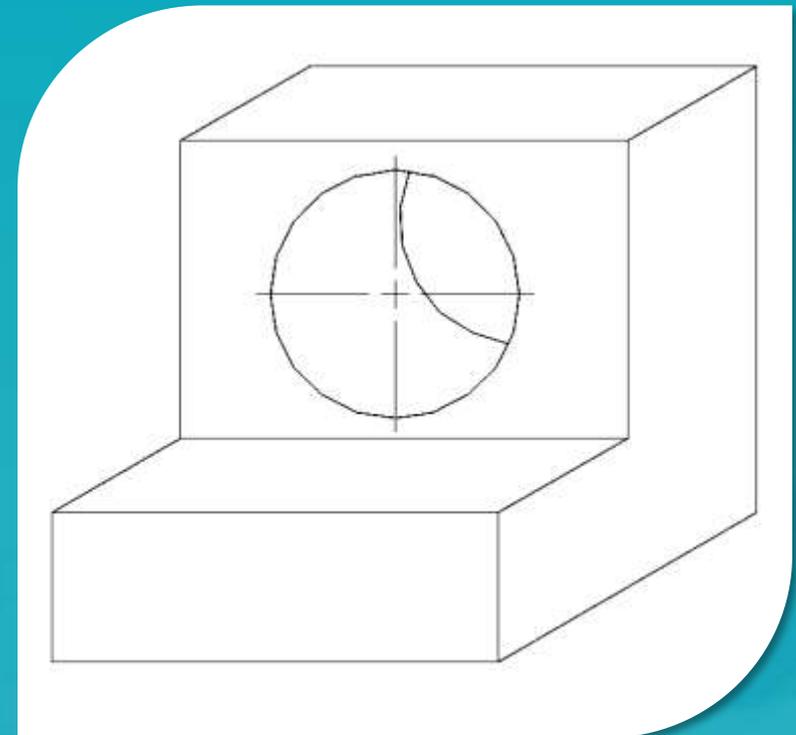
Types of pictorial projection

- Oblique's
 - Cavalier
 - Cabinet
- Isometrics



Cavalier Oblique

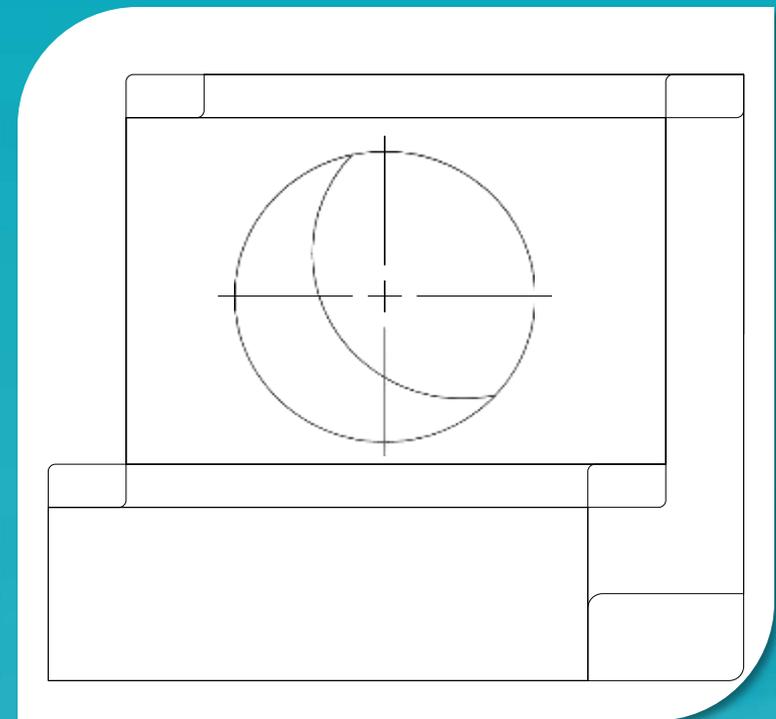
- Front view true size
- Receding Axis Angle (Normally 30° , 45° or 60°) is Variable
- Depth dimension (receding axis) true size





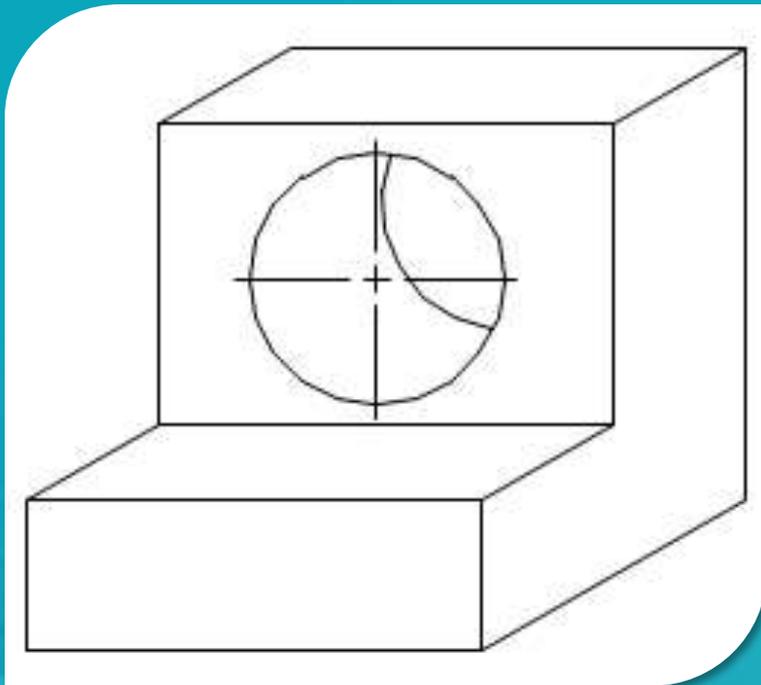
Cabinet Oblique

- Front view true size
- Receding Axis Angle (Normally 30° , 45° or 60°) is Variable
- Depth dimension (receding axis) half size

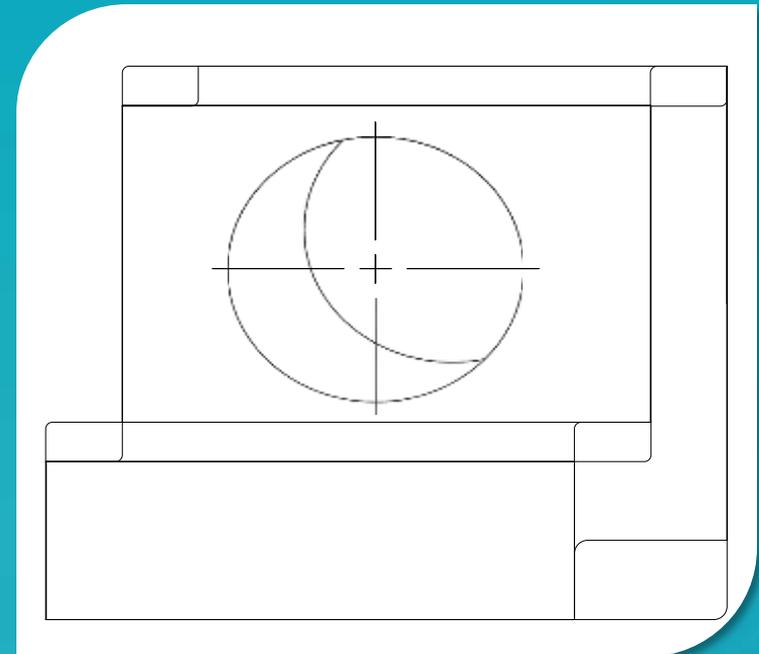




Side by Side Comparison



Cavalier Oblique



Cabinet Oblique



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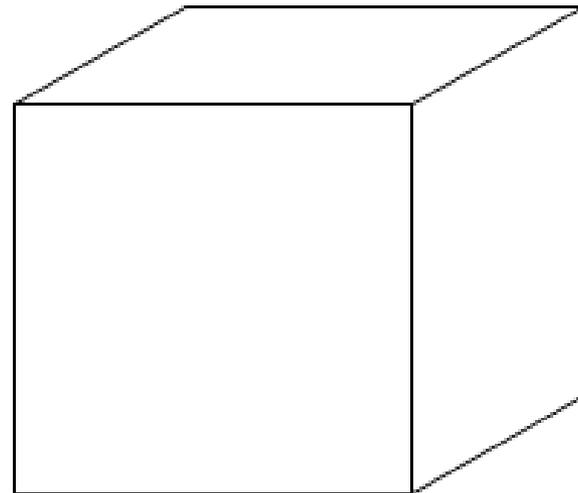
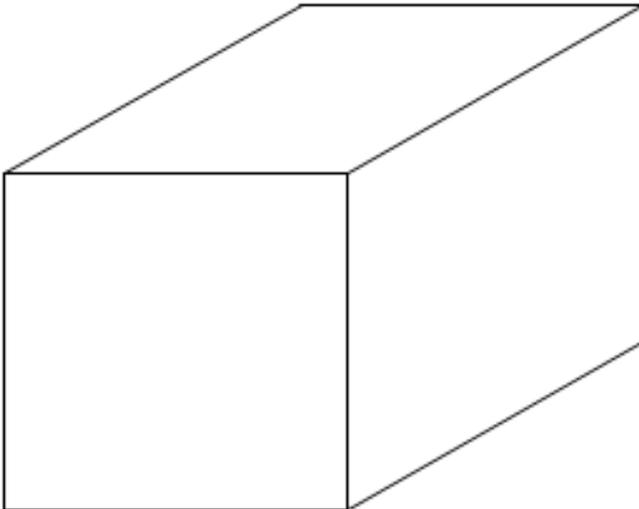
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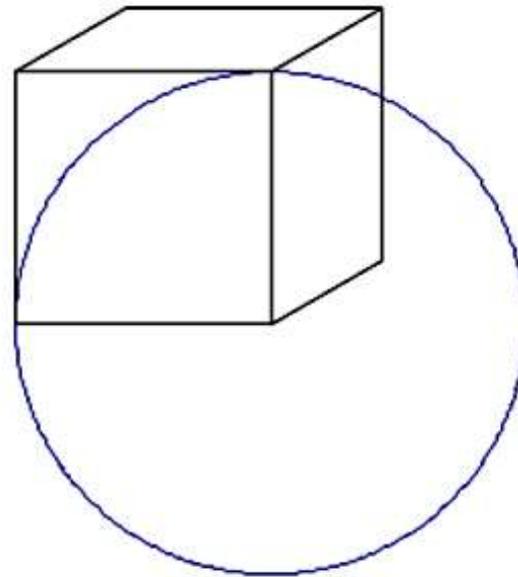
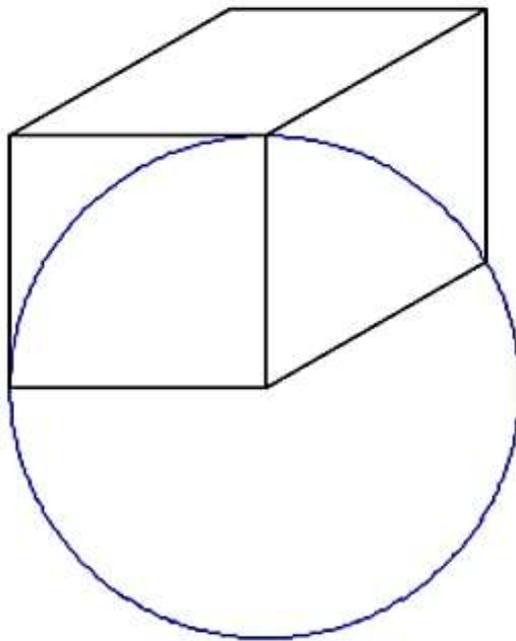
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Which is the cube ?





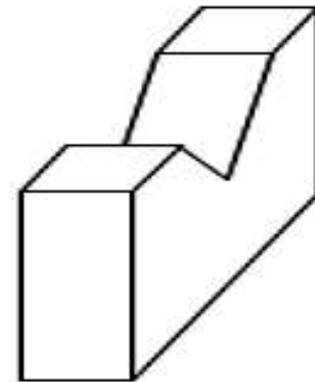
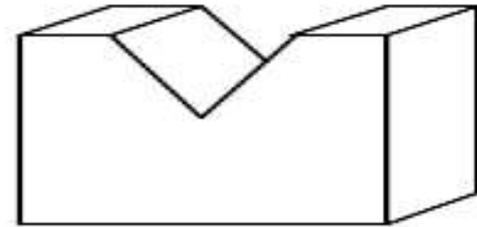
Were you right?





Angles in Oblique

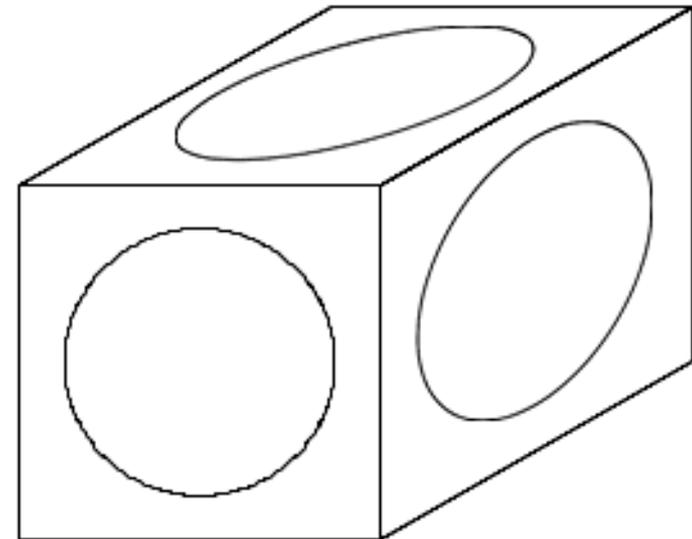
- Angles in front view are drawn true size
- Other angles must be located using coordinates
- Appearance of angles may be distorted





Circles in Oblique

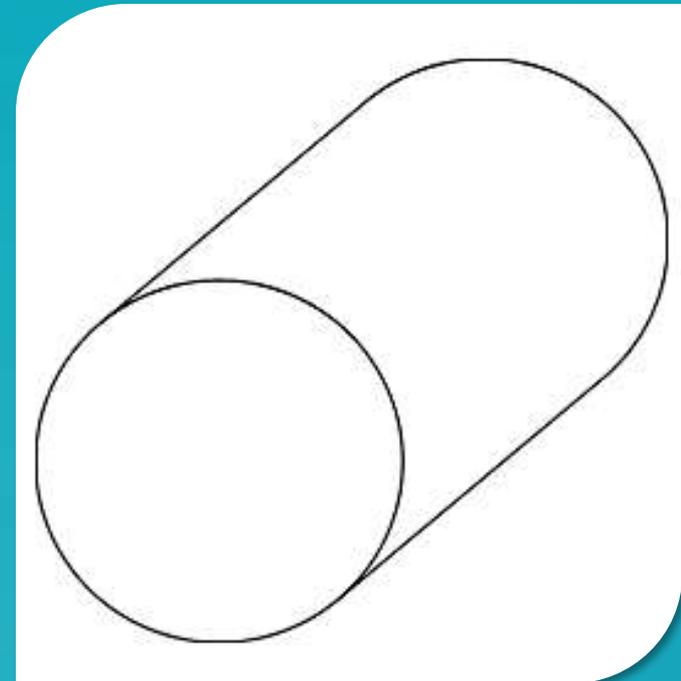
- Drawn true size in front view
- Drawn as ellipses on receding planes
- Layout using a Rhombus





Cylinders in Oblique

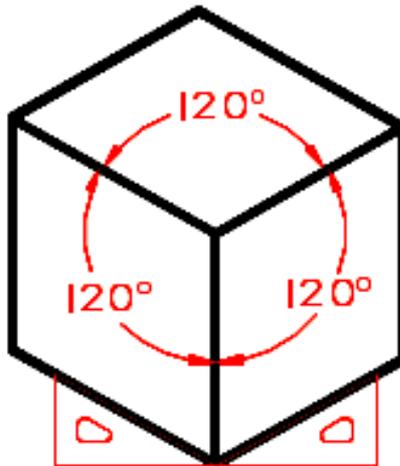
- Front and Back surfaces are circular
- “Sides” are drawn as lines tangent to the front and back





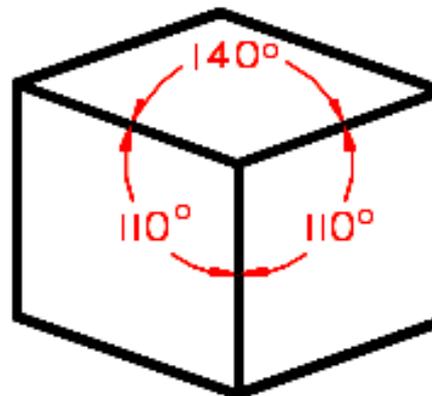
Types of Axonometrics

3 Equal axes
3 Equal angles



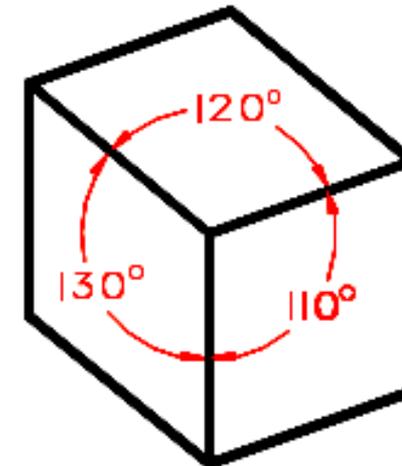
A. ISOMETRIC

2 Equal axes
2 Equal angles



B. DIMETRIC

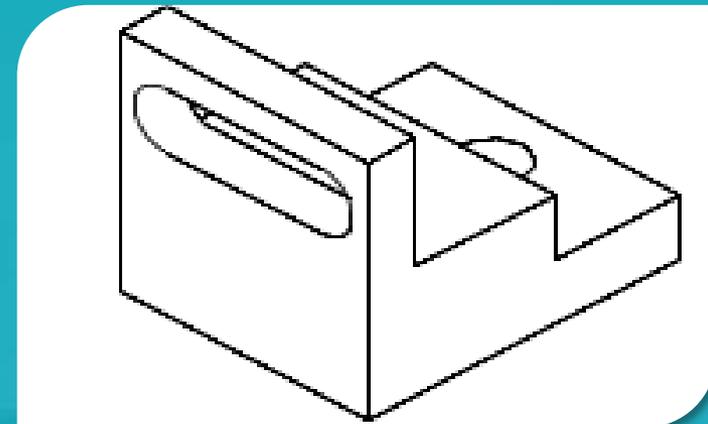
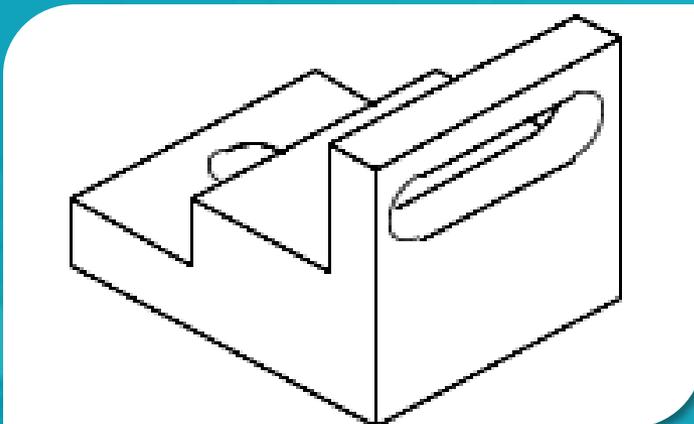
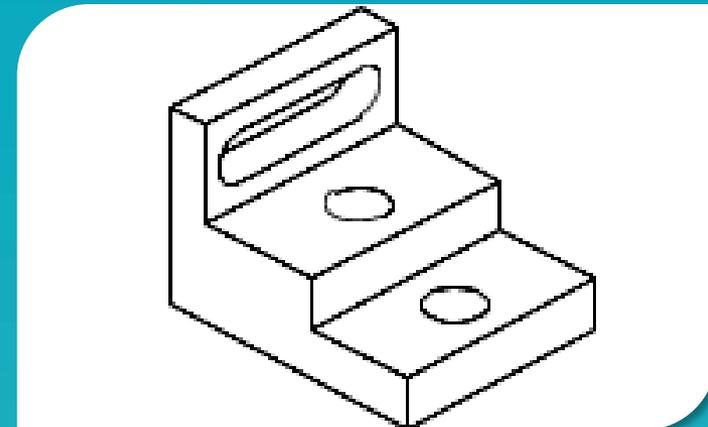
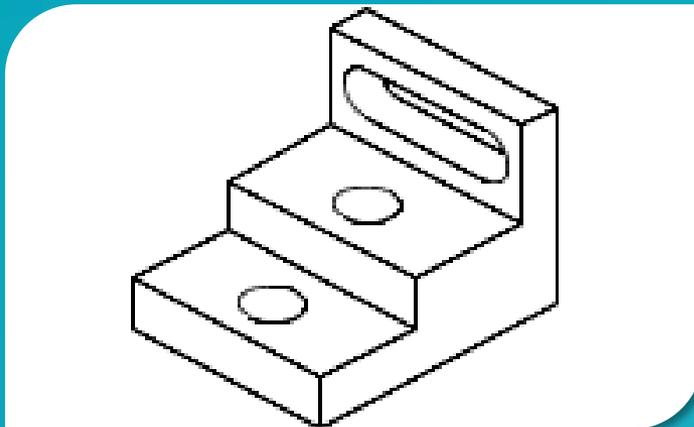
0 Equal axes
0 Equal angles



C. TRIMETRIC



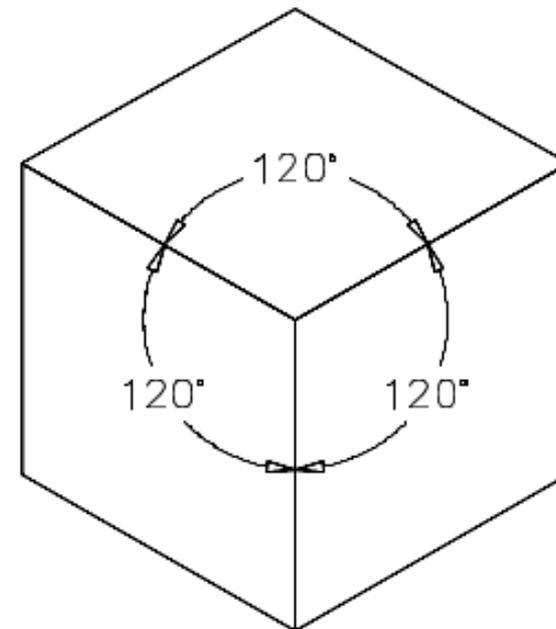
Orientation of Pictorial Objects





Isometrics

- Axes equally separated (120°)
- H, W, and D measurements are true size along iso. axes
- Angles must be located by coordinates
- Circles appear as ellipses on all surfaces





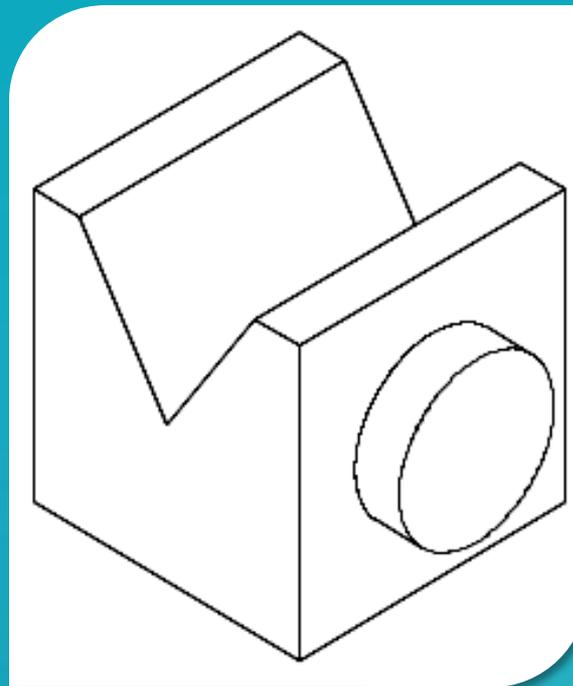
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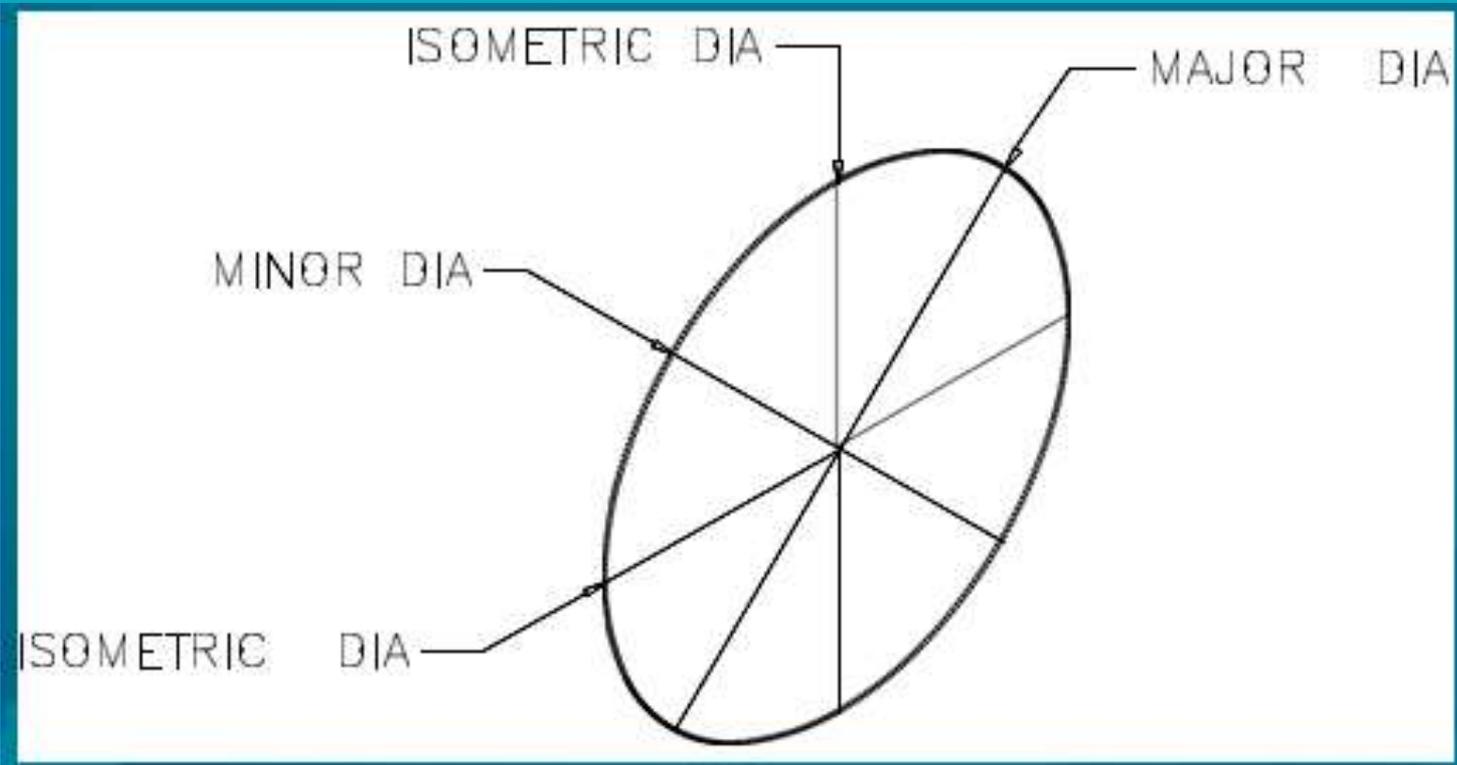
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Isometric Circles & Angles





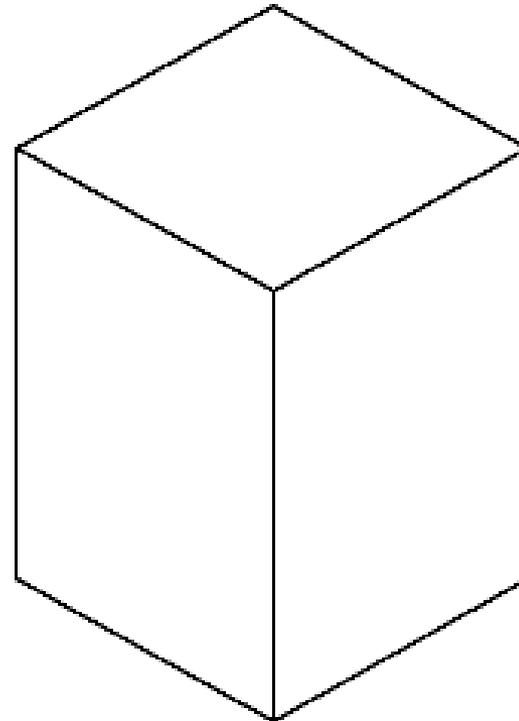
Isometric Ellipses





Construction of Cylinders

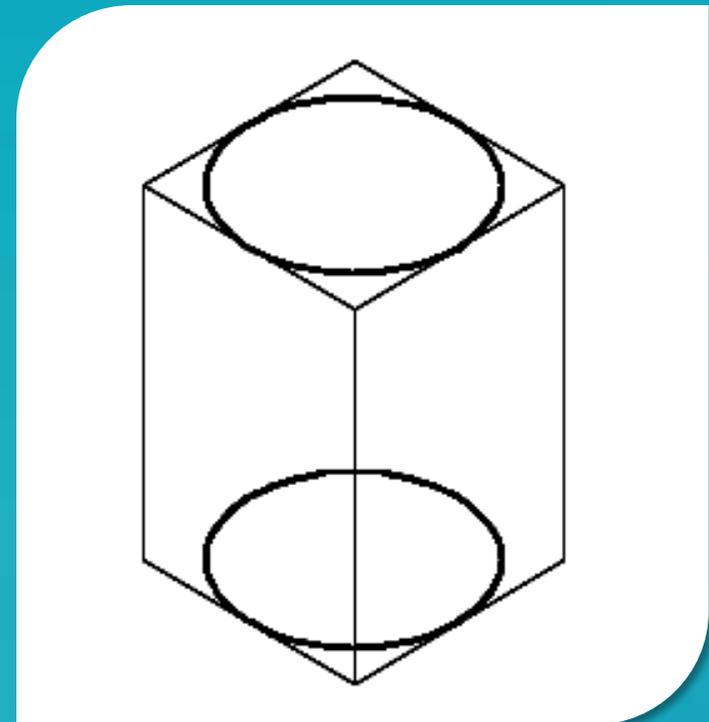
- Lightly block in the cylinder





Construction of Cylinders

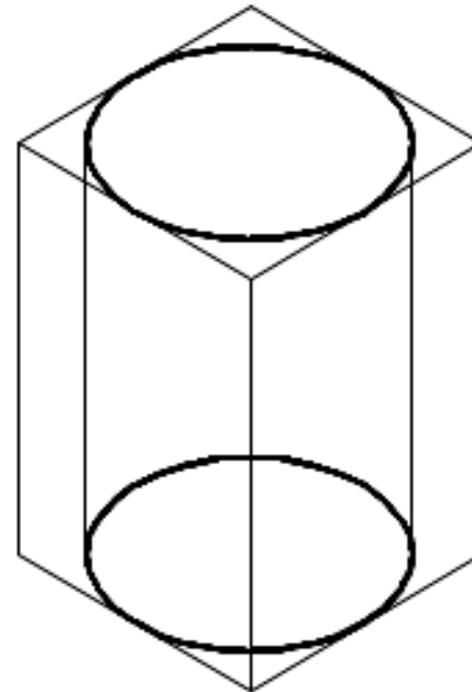
- Lightly block in the cylinder
- Sketch the upper and lower ellipses





Construction of Cylinders

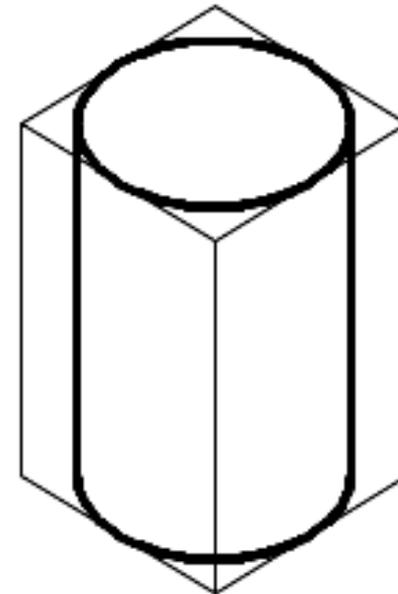
- Lightly block in the cylinder
- Sketch the upper and lower ellipses
- Connect the ellipses with Tangent lines





Construction of Cylinders

- Lightly block in the cylinder
- Sketch the upper and lower ellipses
- Connect the ellipses with Tangent lines
- Darken the lines





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The End

Thanks