

Department of Mechanical and Manufacturing Engineering

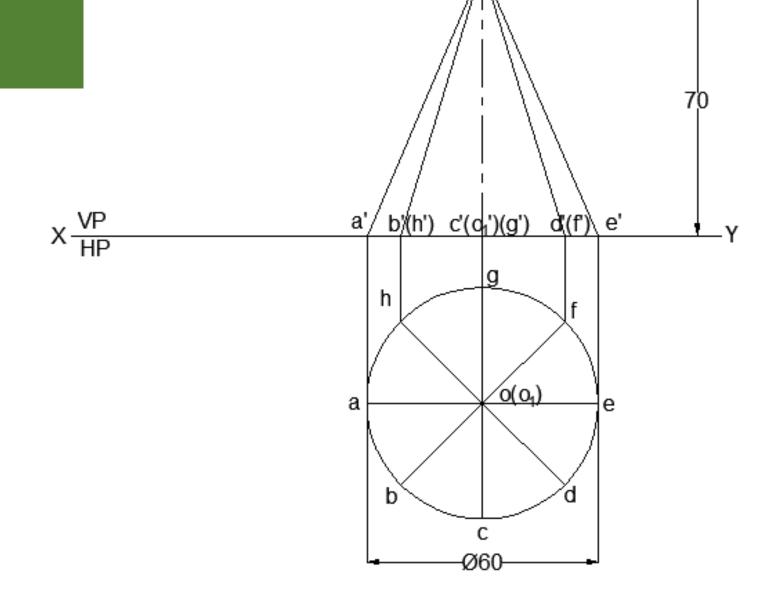
ENGINEERING GRAPHICS - II

CLASS 2: SECTION OF SOLIDS (SHEET 2)

- Cone.
- 60mm diameter & 70mm height.
- Resting on its base on HP.
- Section plane is AIP at 45°.
- Bisecting the axis.

Steps Involved

- Draw the XY line
- Draw the top and front views
- Dimensioning
- Naming

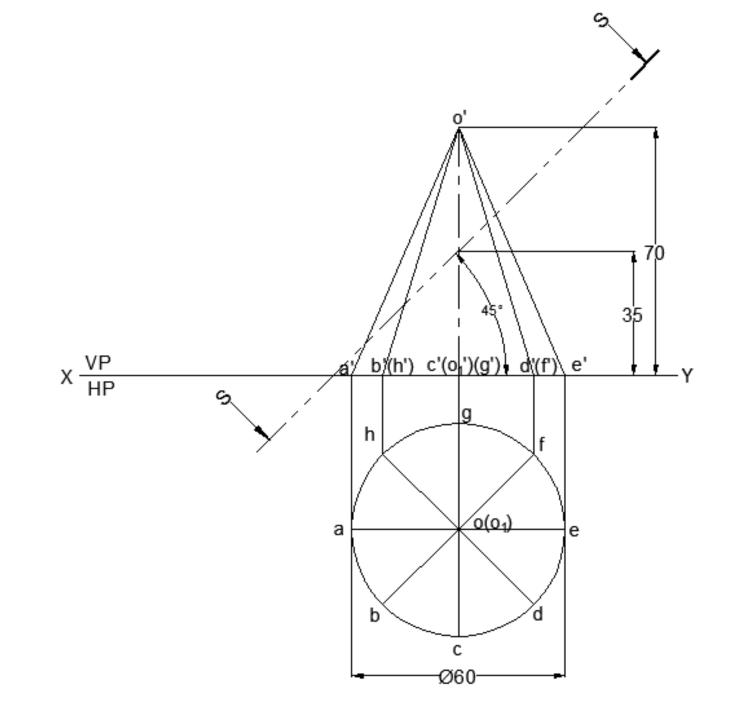


- Cone.
- 60mm diameter & 70mm height.
- Resting on its base on HP.
- Section plane is AIP at 45°.
- Bisecting the axis.

Steps Involved

 Draw the section line at 60° passing through midpoint of axis

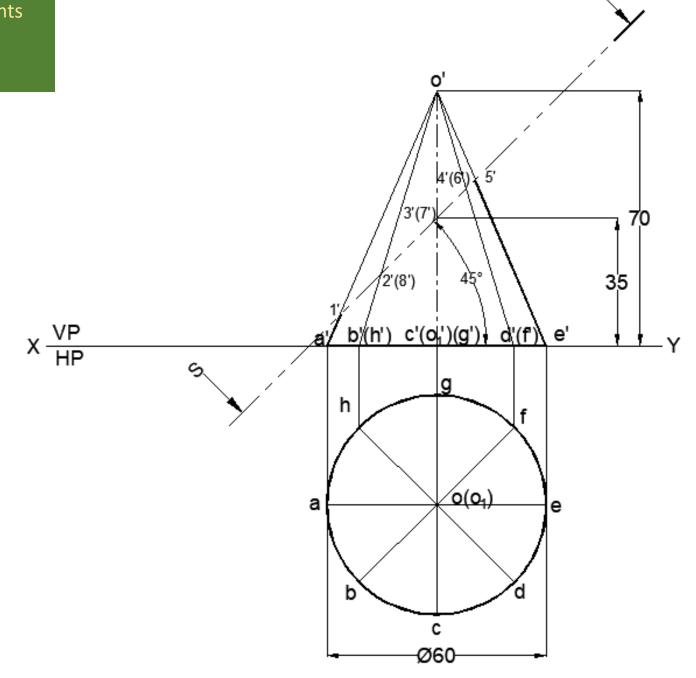
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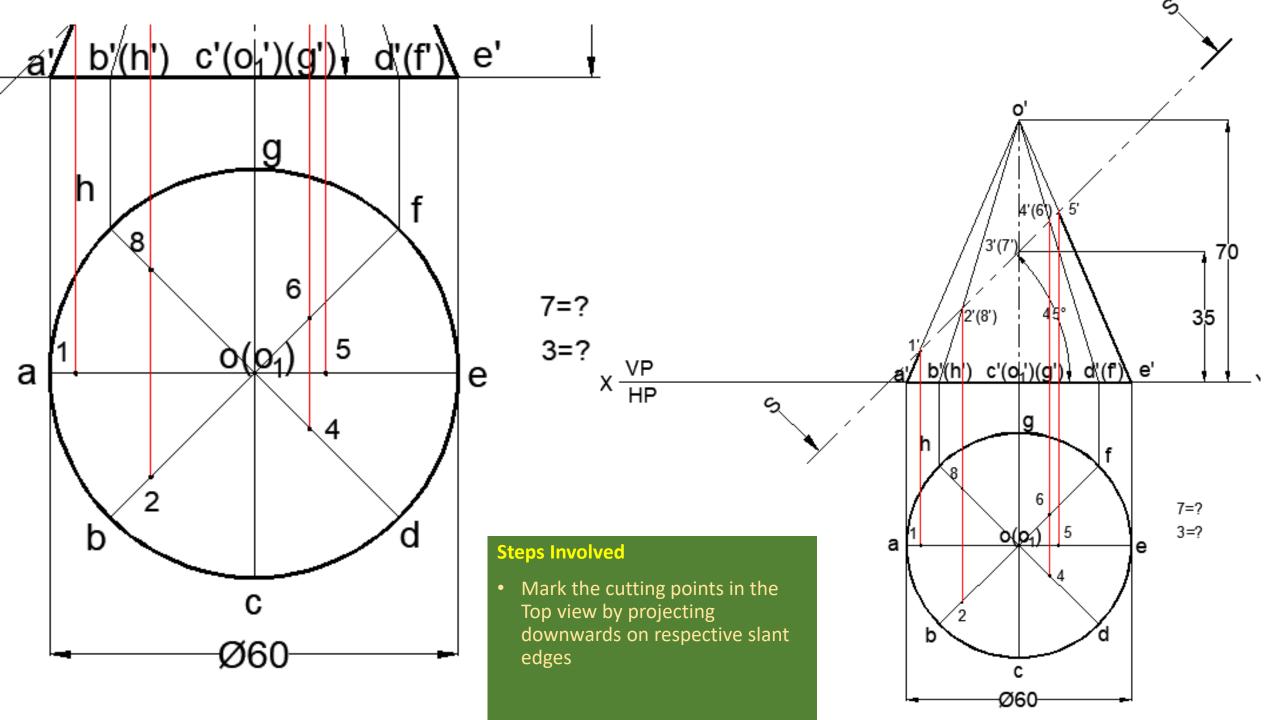


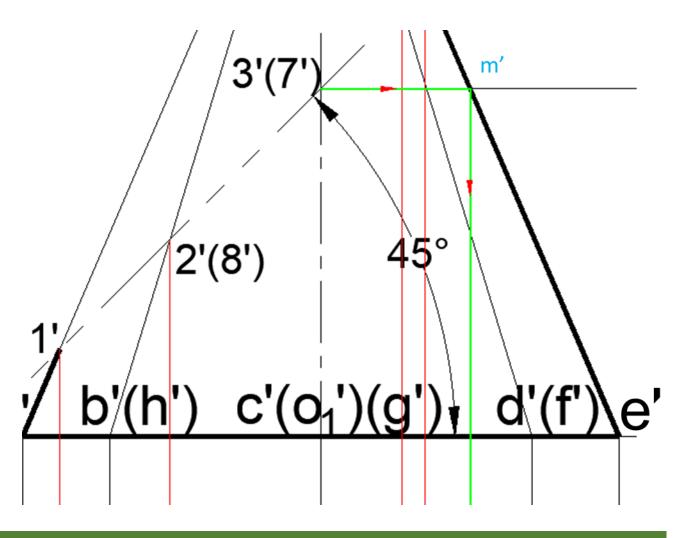
Steps Involved

- Identify & number the cutting points
- Darken the retained portion

- Cone.
- 60mm diameter & 70mm height.
- Resting on its base on HP.
- Section plane is AIP at 45°.
- Bisecting the axis.

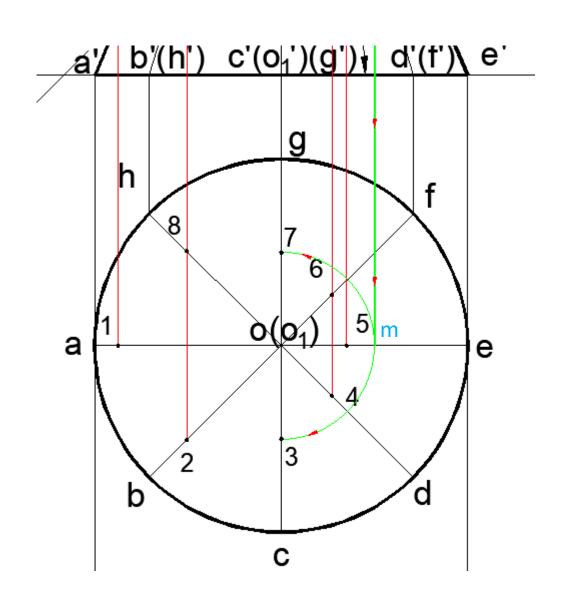


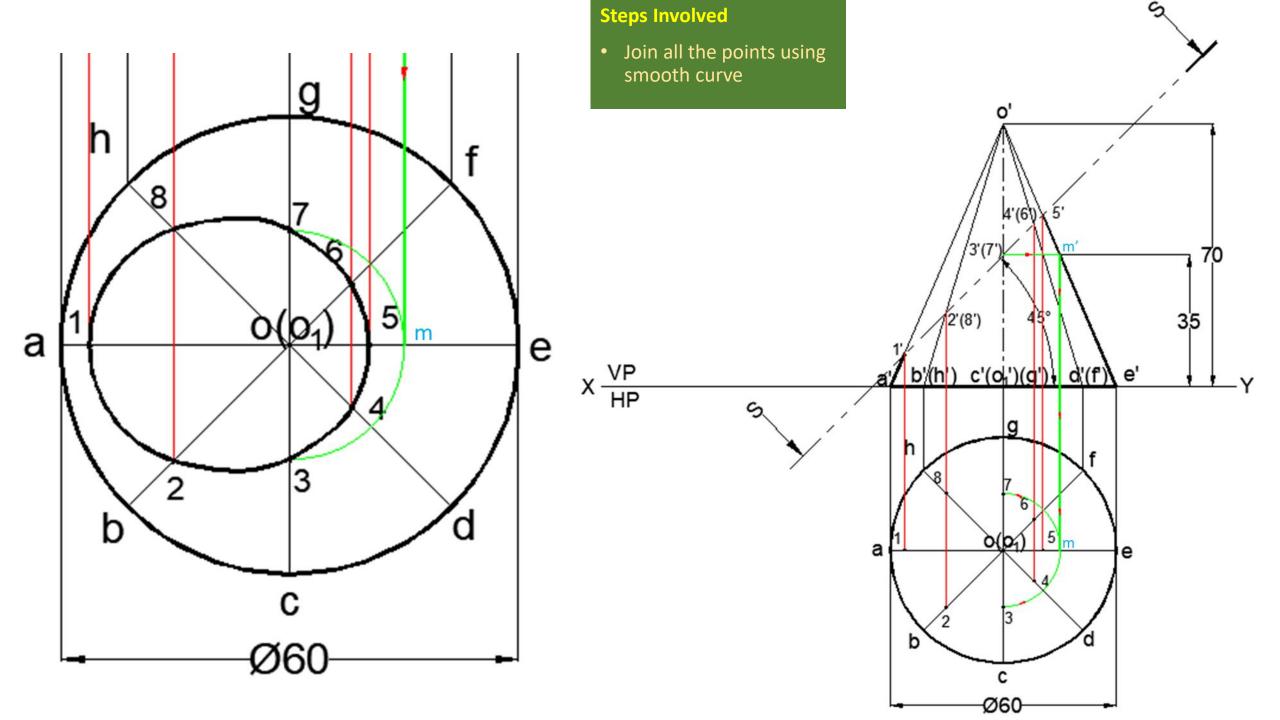


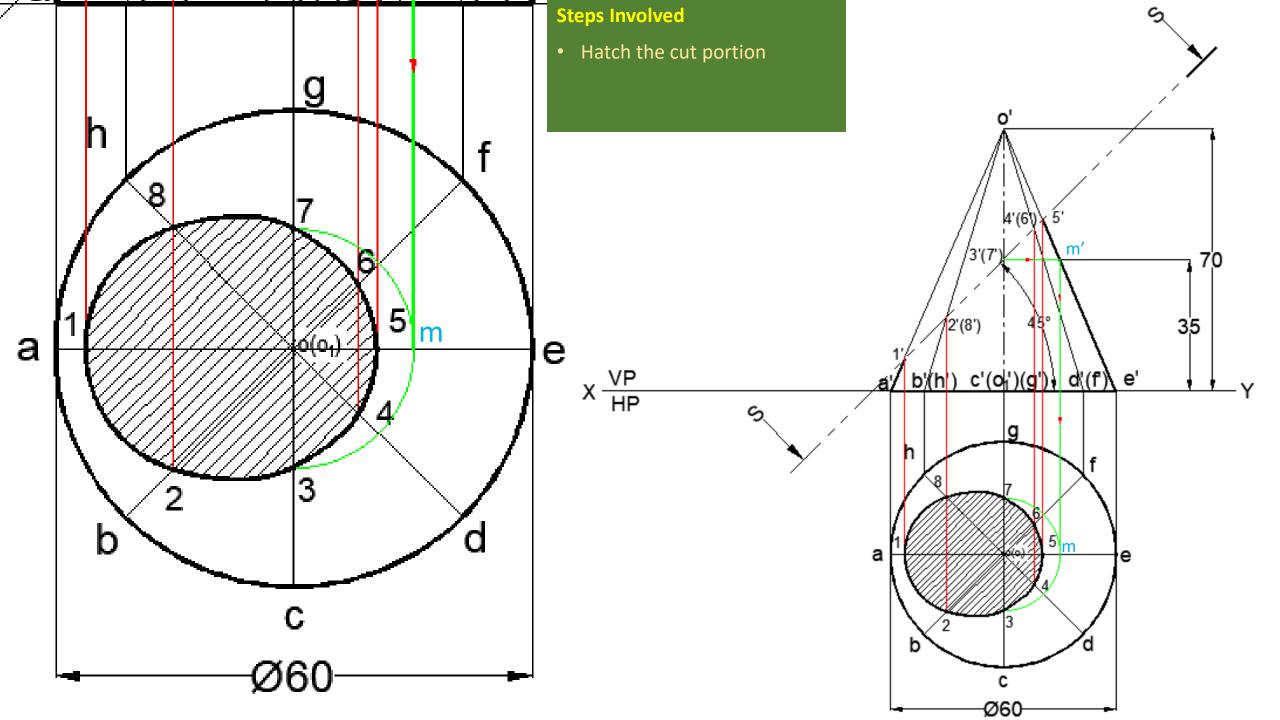


Steps Involved to mark 3 & 7

- Project horizontally from 3'&7' on to generator o'e', which is parallel to VP (And is of true length) to get m'
- Project downwards till it cuts its top view oe
- o as centre, cut an arc with radius om, to get 3 and 7 as shown



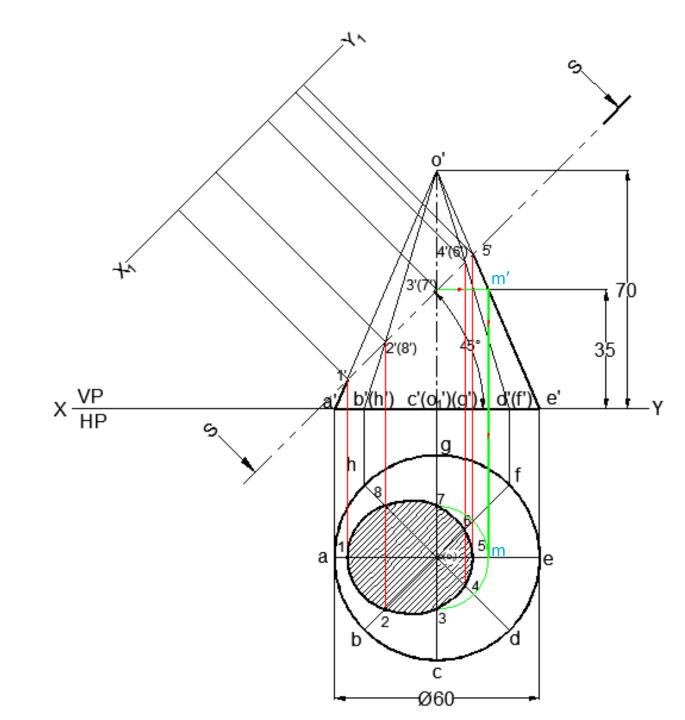


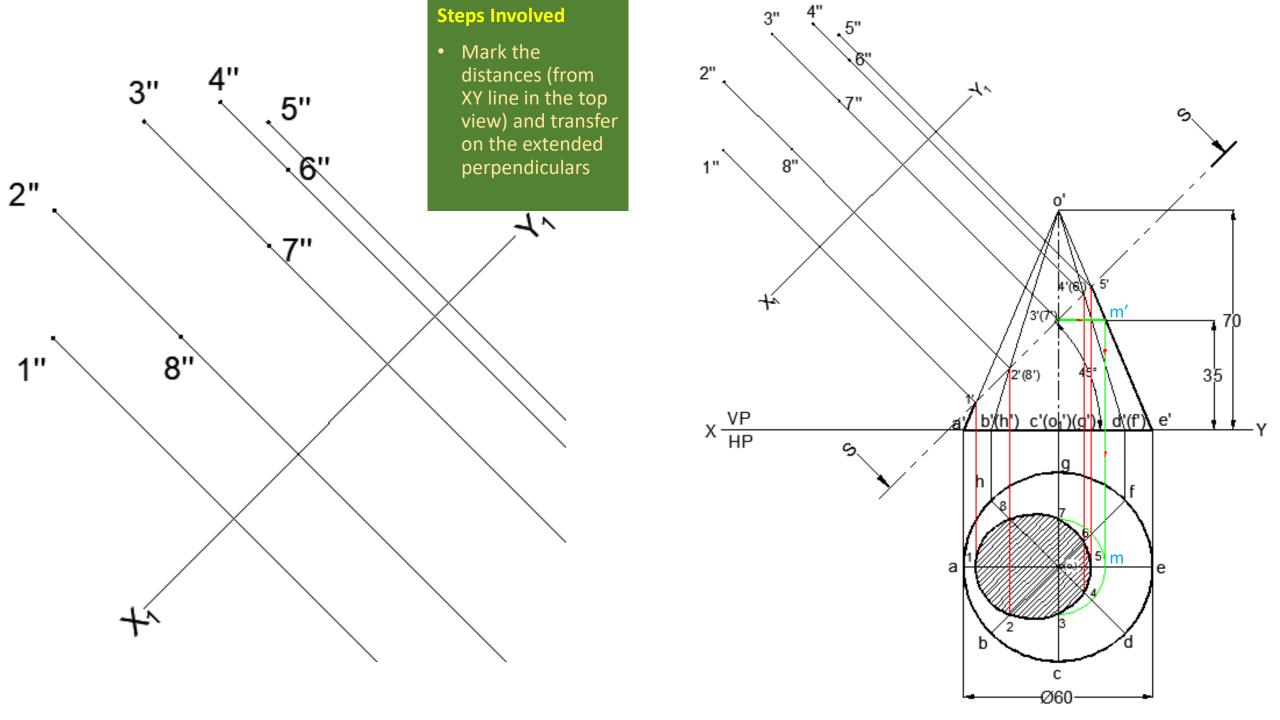


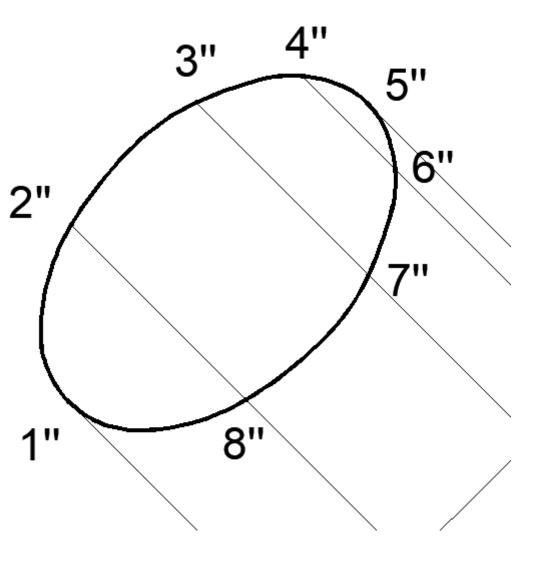
Steps Involved

- Project perpendiculars from the cutting points
- Mark X₁Y₁ at suitable distance from section line

- Cone.
- 60mm diameter & 70mm height.
- Resting on its base on HP.
- Section plane is AIP at 45°.
- Bisecting the axis.







Steps Involved

• Join all the points using smooth curve

