

# Department of Mechanical and Manufacturing Engineering

# **ENGINEERING GRAPHICS - II**

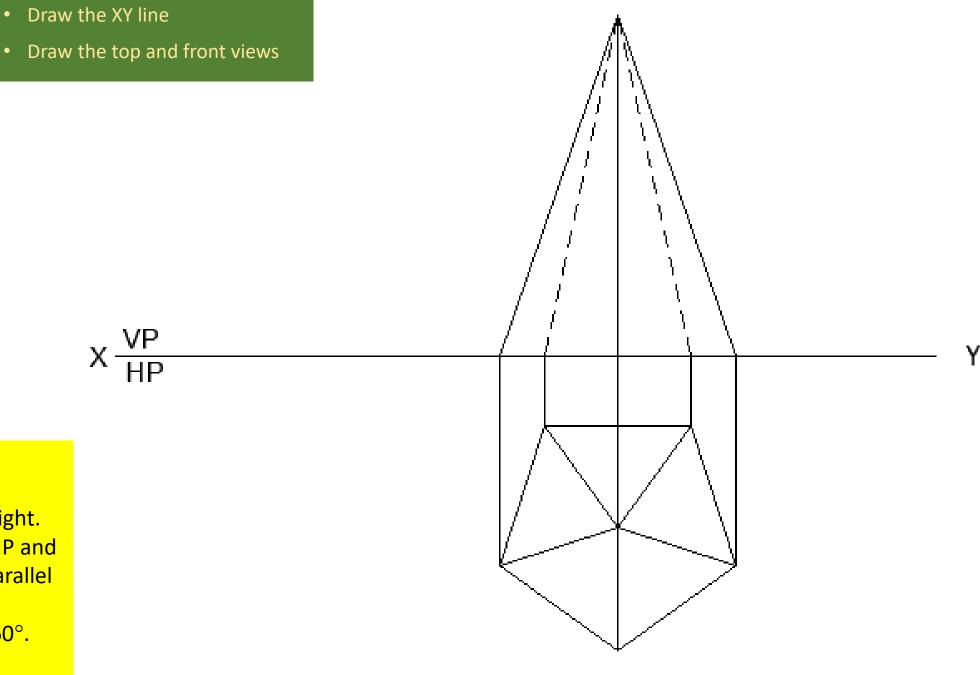
CLASS 2: SECTION OF SOLIDS (SHEET 2)

- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.

#### **Steps Involved**

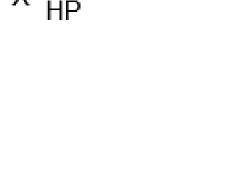
- Draw the XY line

- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.

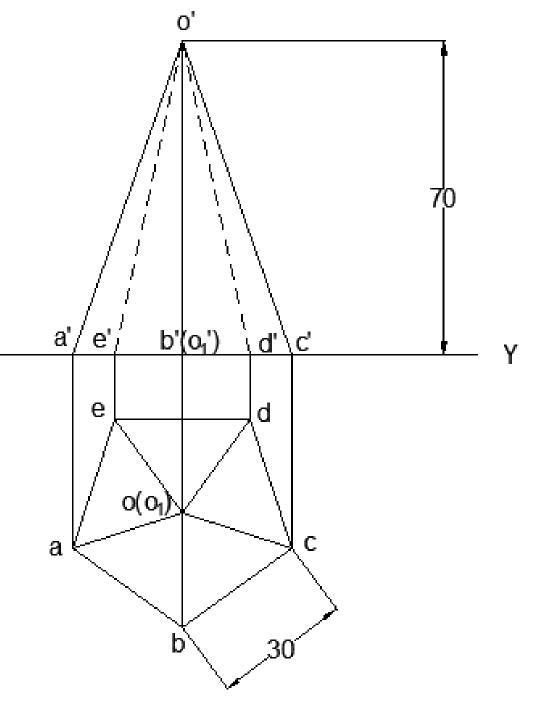


## **Steps Involved**

- Dimensioning
  - Naming



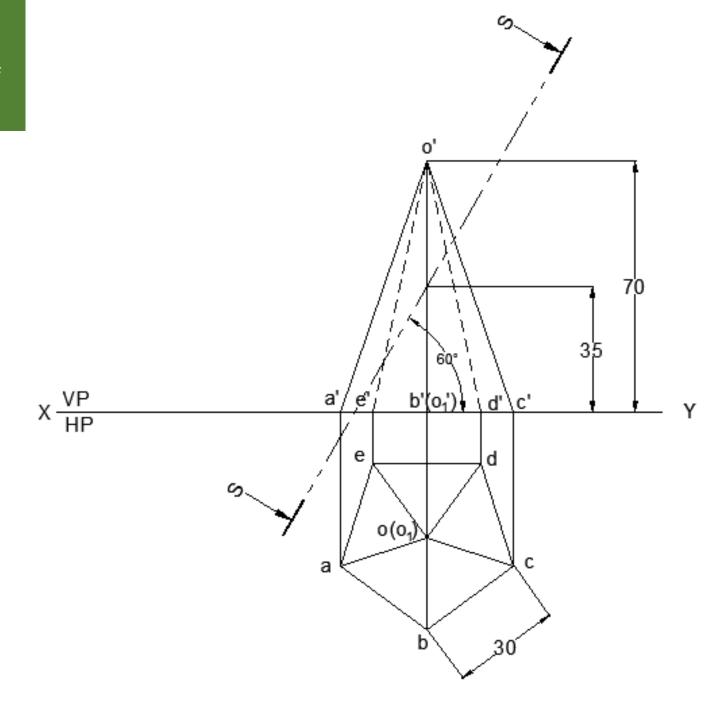
- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.



#### **Steps Involved**

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

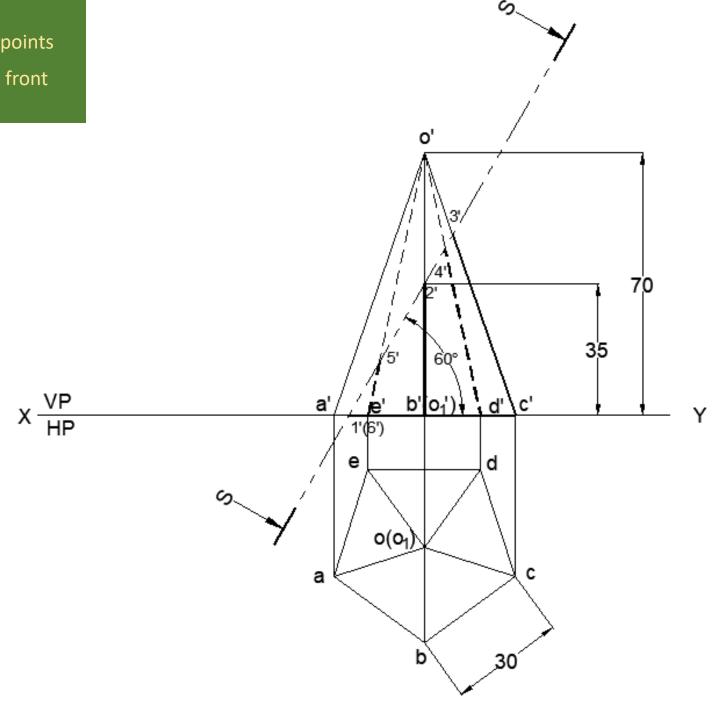
- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.



#### **Steps Involved**

- Identify & number the cutting points
- Darken the retained portion in front view

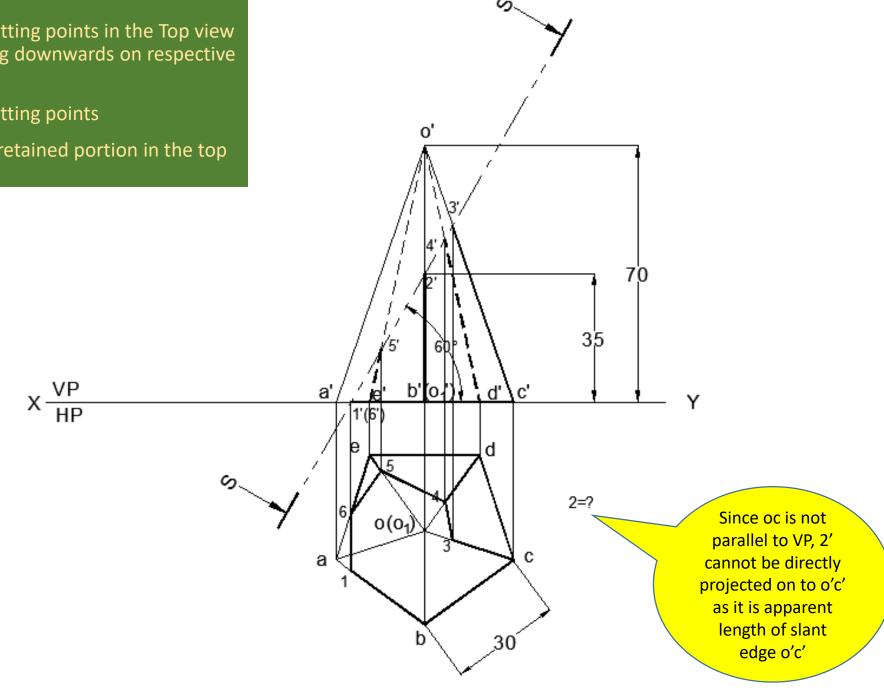
- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.



#### **Steps Involved**

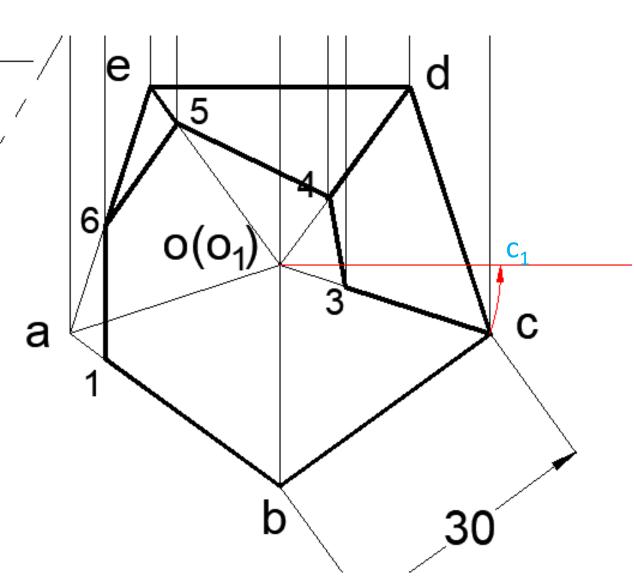
- Mark the cutting points in the Top view by projecting downwards on respective slant edges
- Mark the cutting points
- Darken the retained portion in the top view

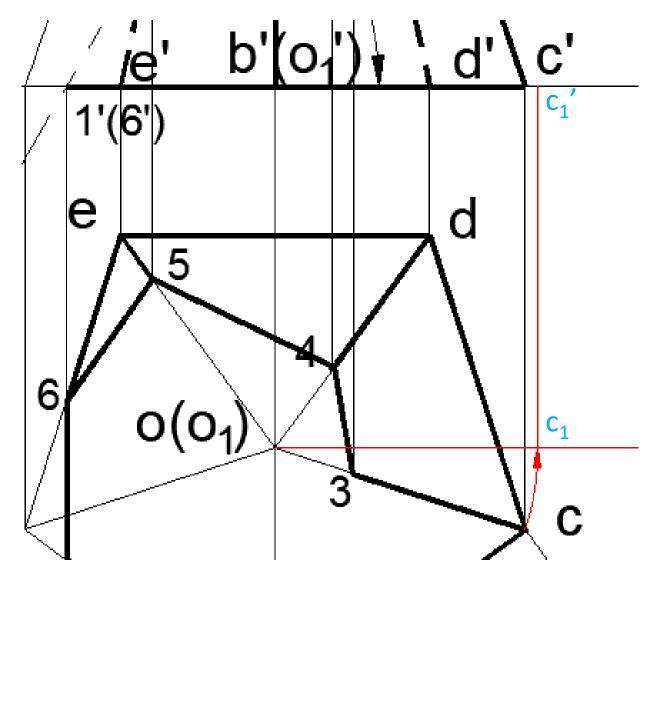
- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.

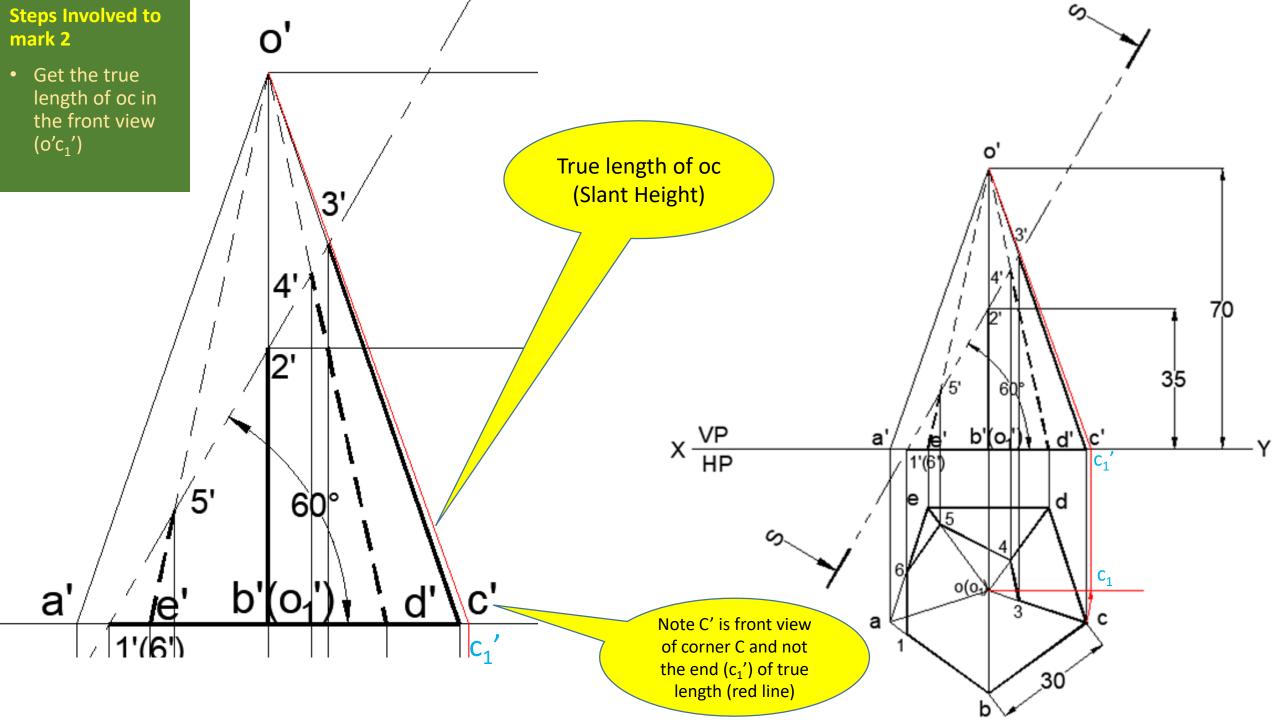


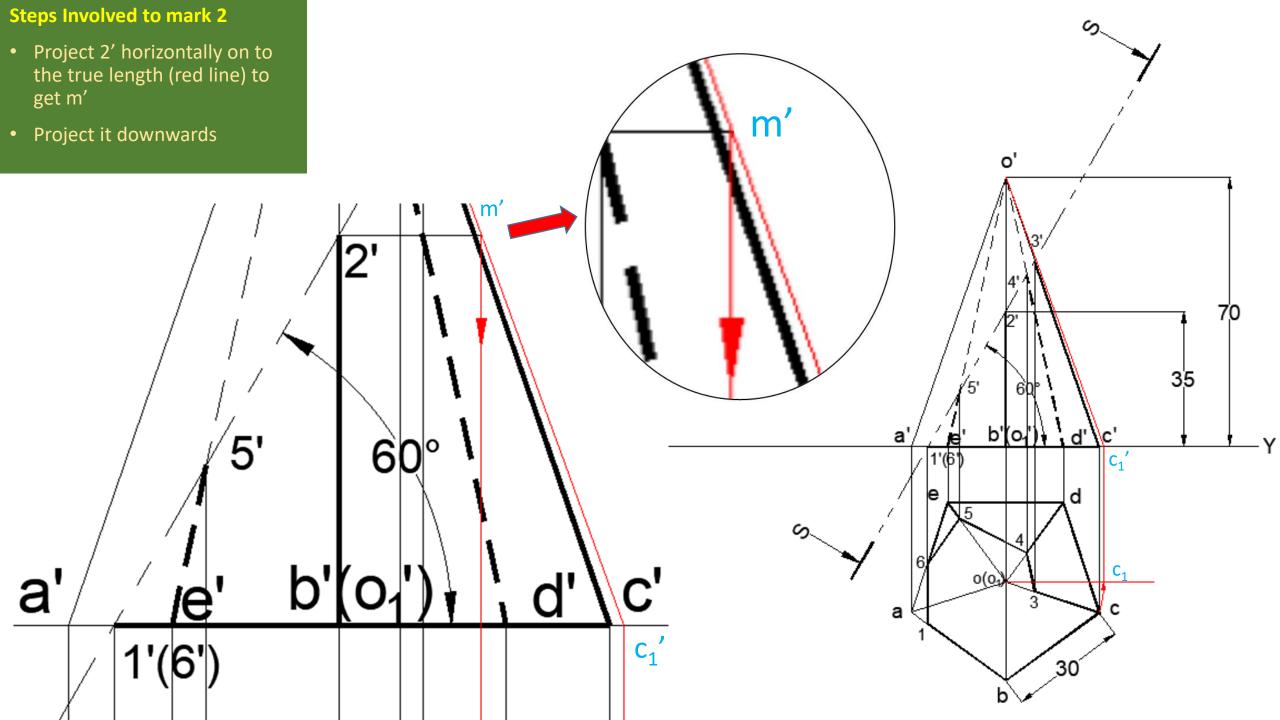
# Steps Involved to mark 2

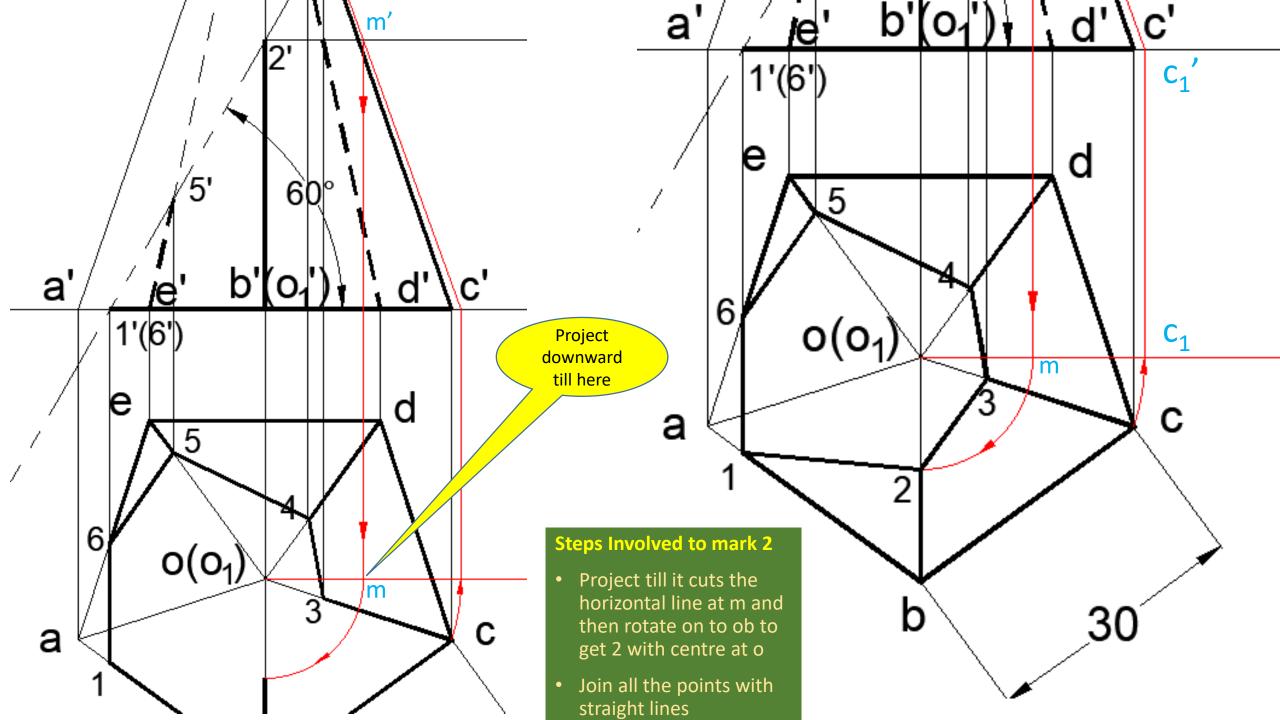
- Rotate OC to make it parallel to VP as shown
- Project it upwards to meet XY line







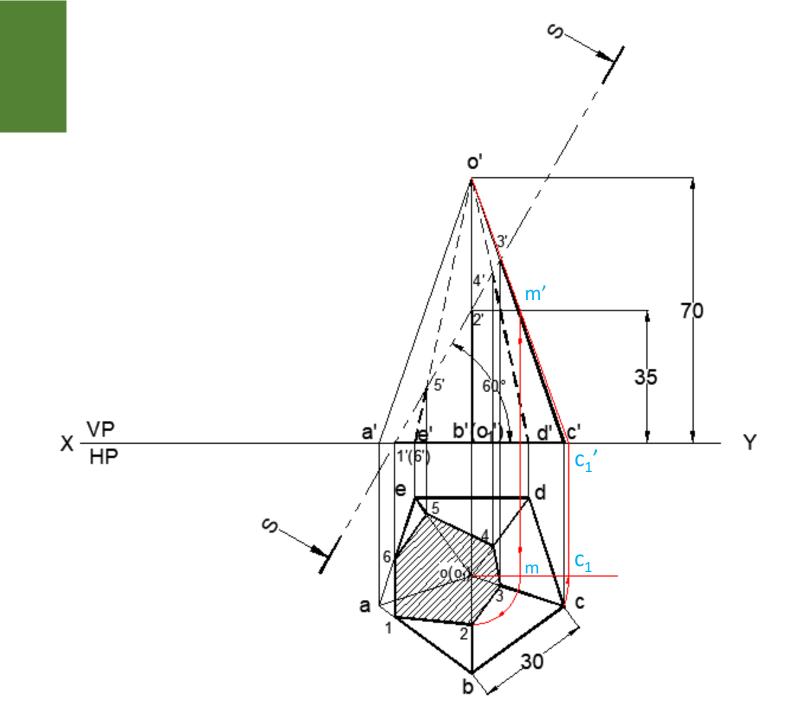




#### **Steps Involved**

Hatch the cut portion

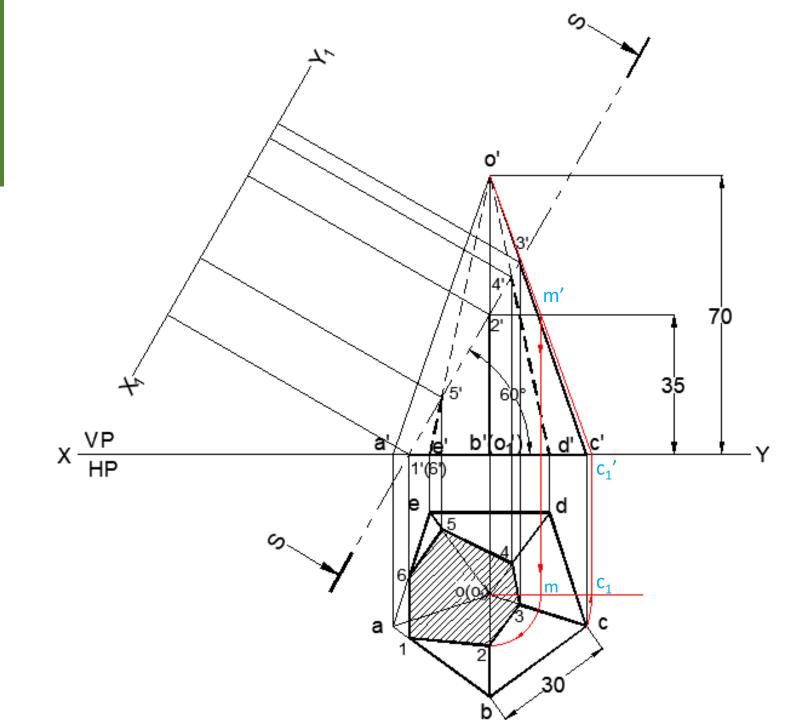
- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.



## **Steps Involved**

- Project perpendiculars from the cutting points
- Mark X<sub>1</sub>Y<sub>1</sub> at suitable distance from section line

- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.



## **Steps Involved**

 Mark the distances (from XY line in the top view) and transfer on the extended perpendiculars

- Pentagonal Pyramid.
- 30mm side & 70mm height.
- Resting on its base on HP and one edge of the base parallel to VP and nearer to it.
- Section plane is AIP at 60°.
- Bisecting the axis.

