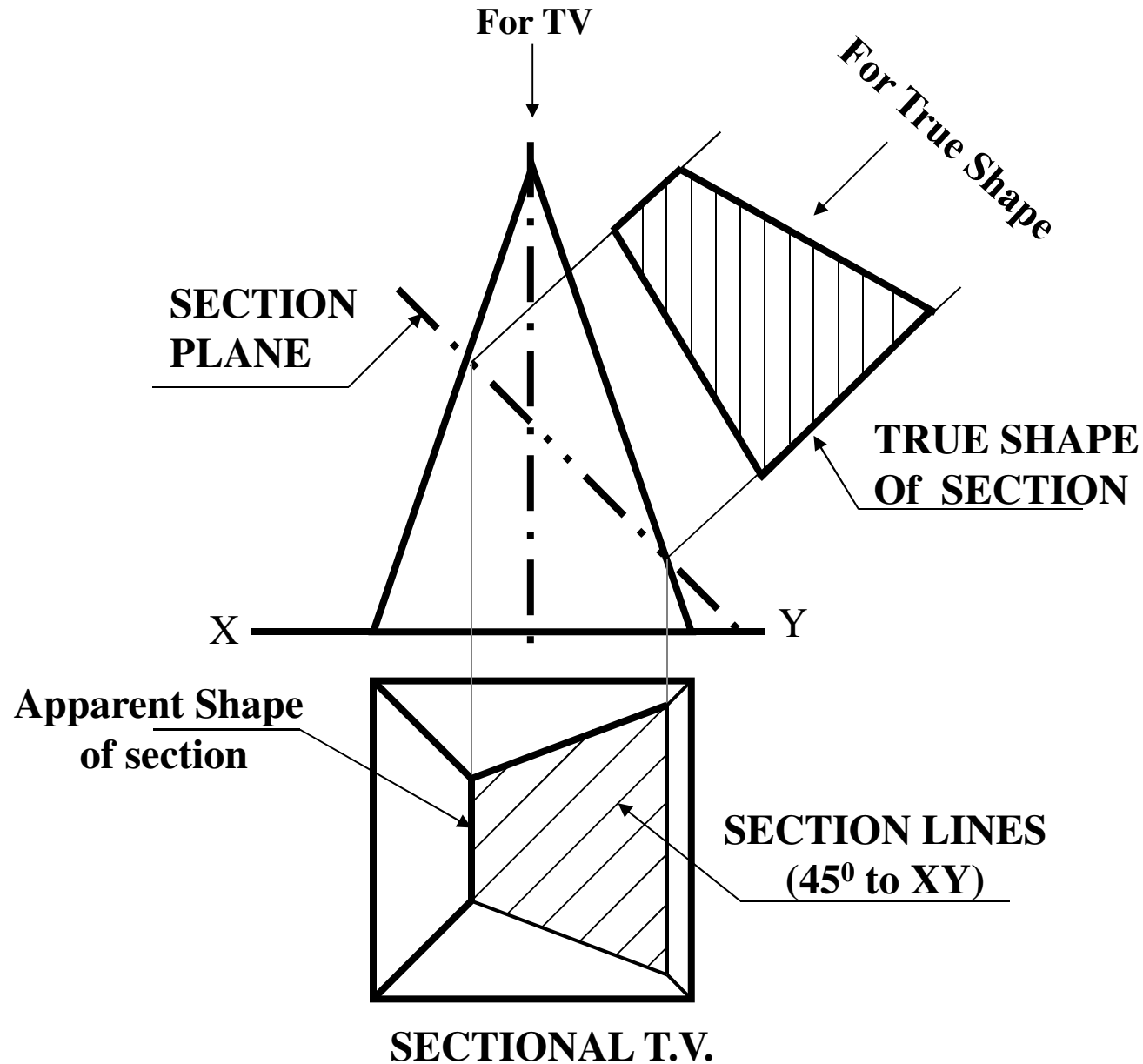


# Sections of Solids

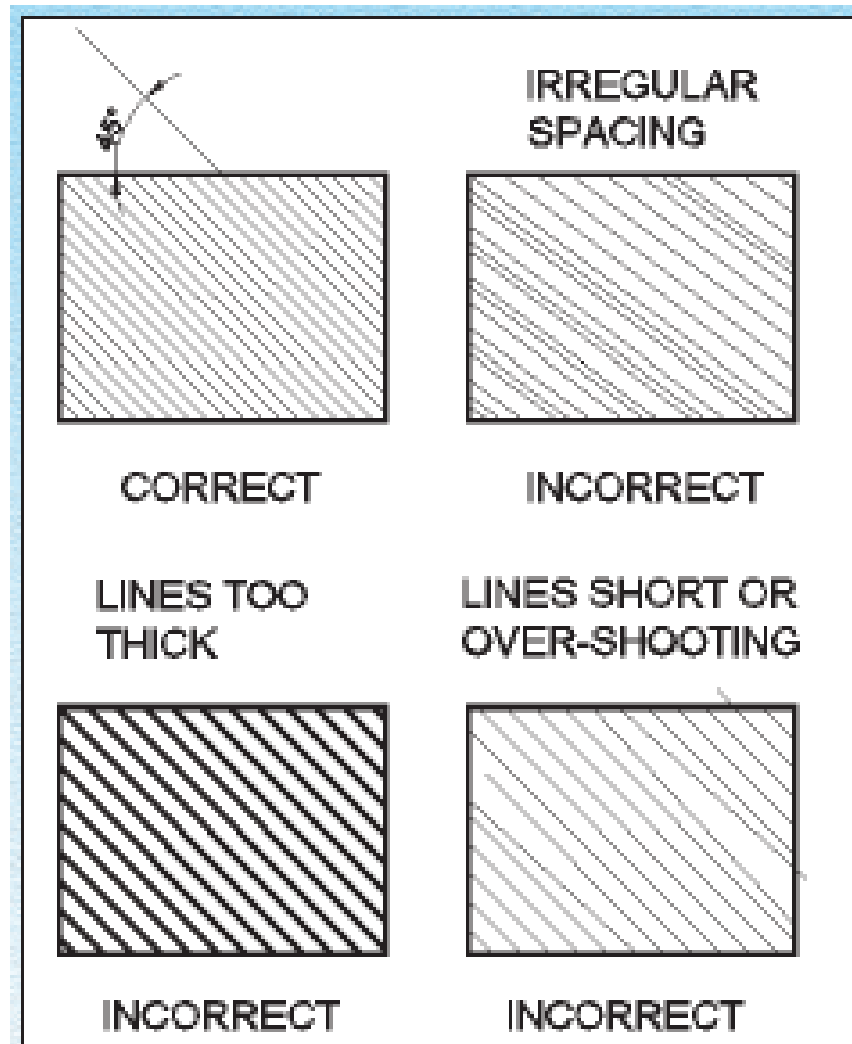


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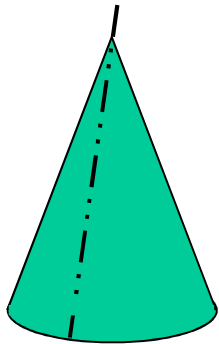
# Introduction



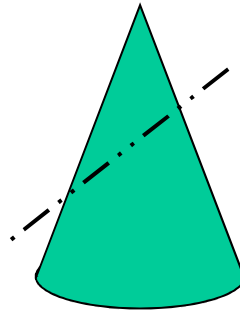
# Method of Hatching



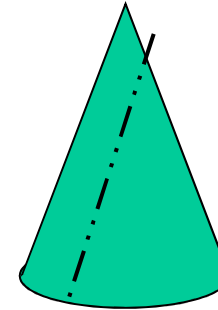
# Typical section planes and shape of sections



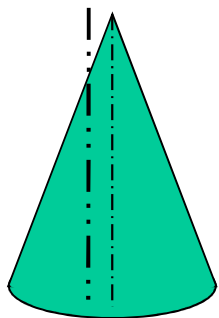
Section Plane  
Through Apex



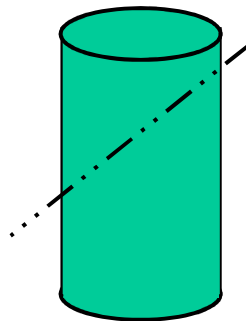
Section Plane  
Through Generators



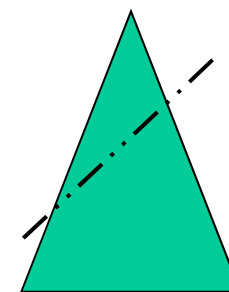
Section Plane Parallel  
to end generator.



Section Plane  
Parallel to Axis.



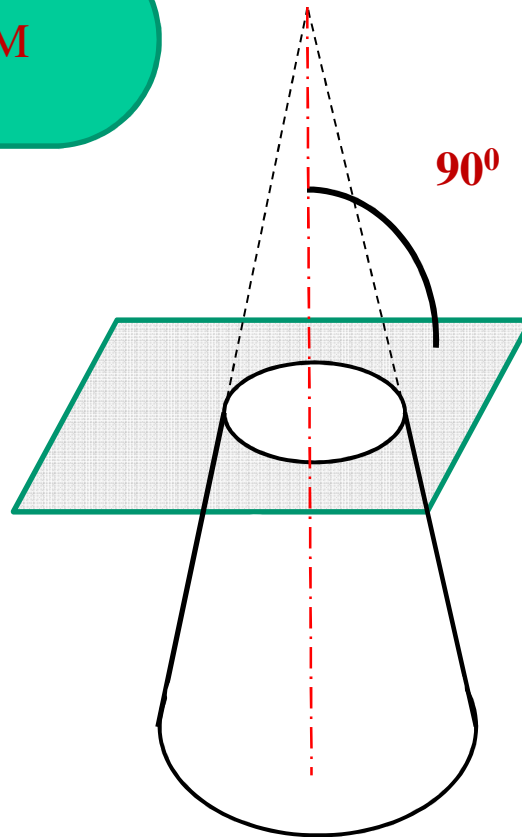
Cylinder through  
generators.



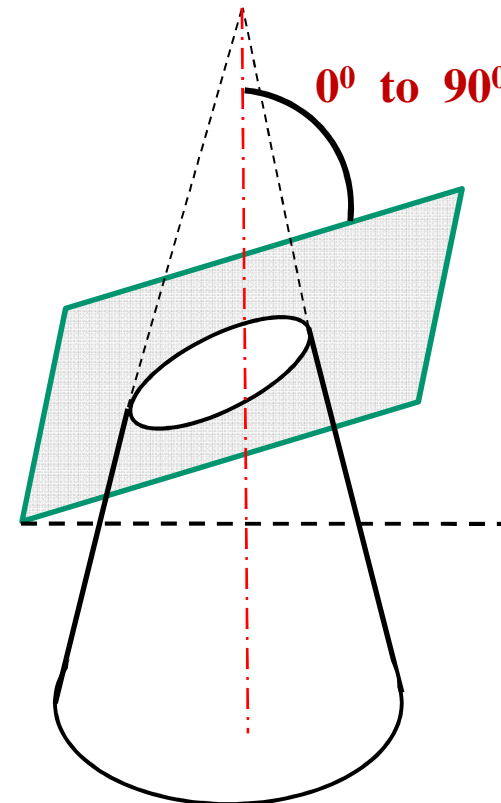
Sq. Pyramid through  
all slant edges

# Frustum Vs Truncated

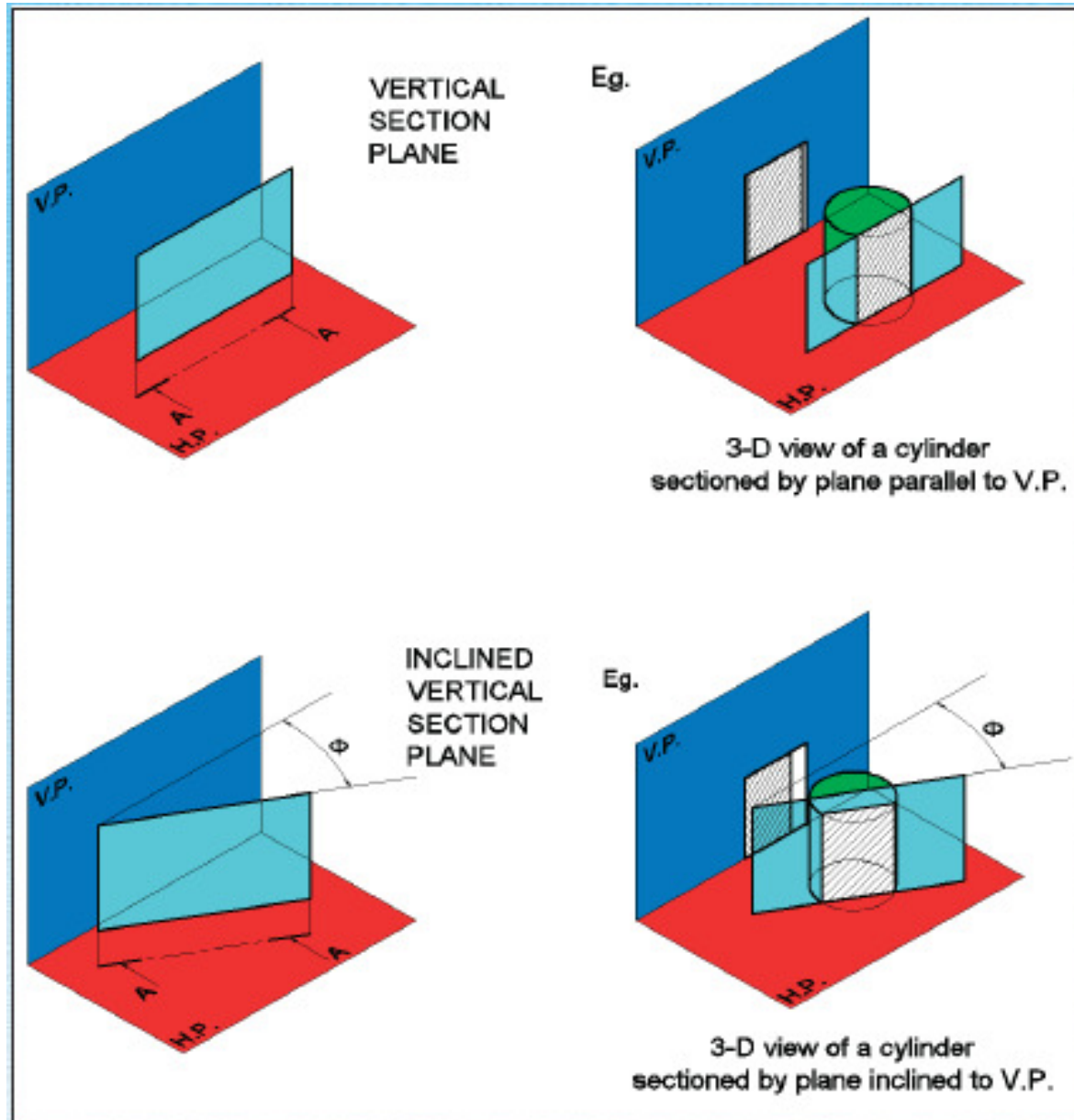
FRUSTUM



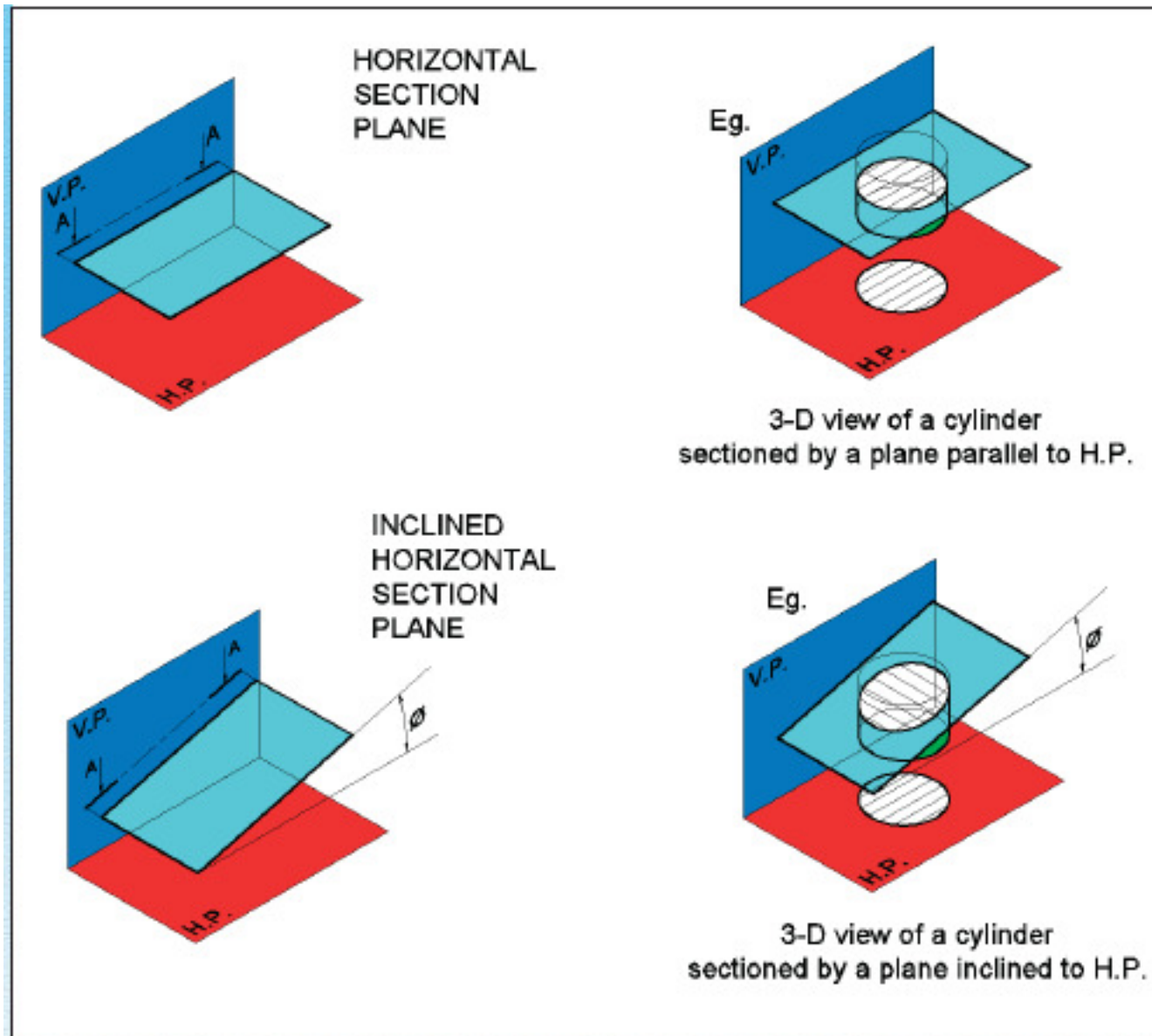
TRUNCATED



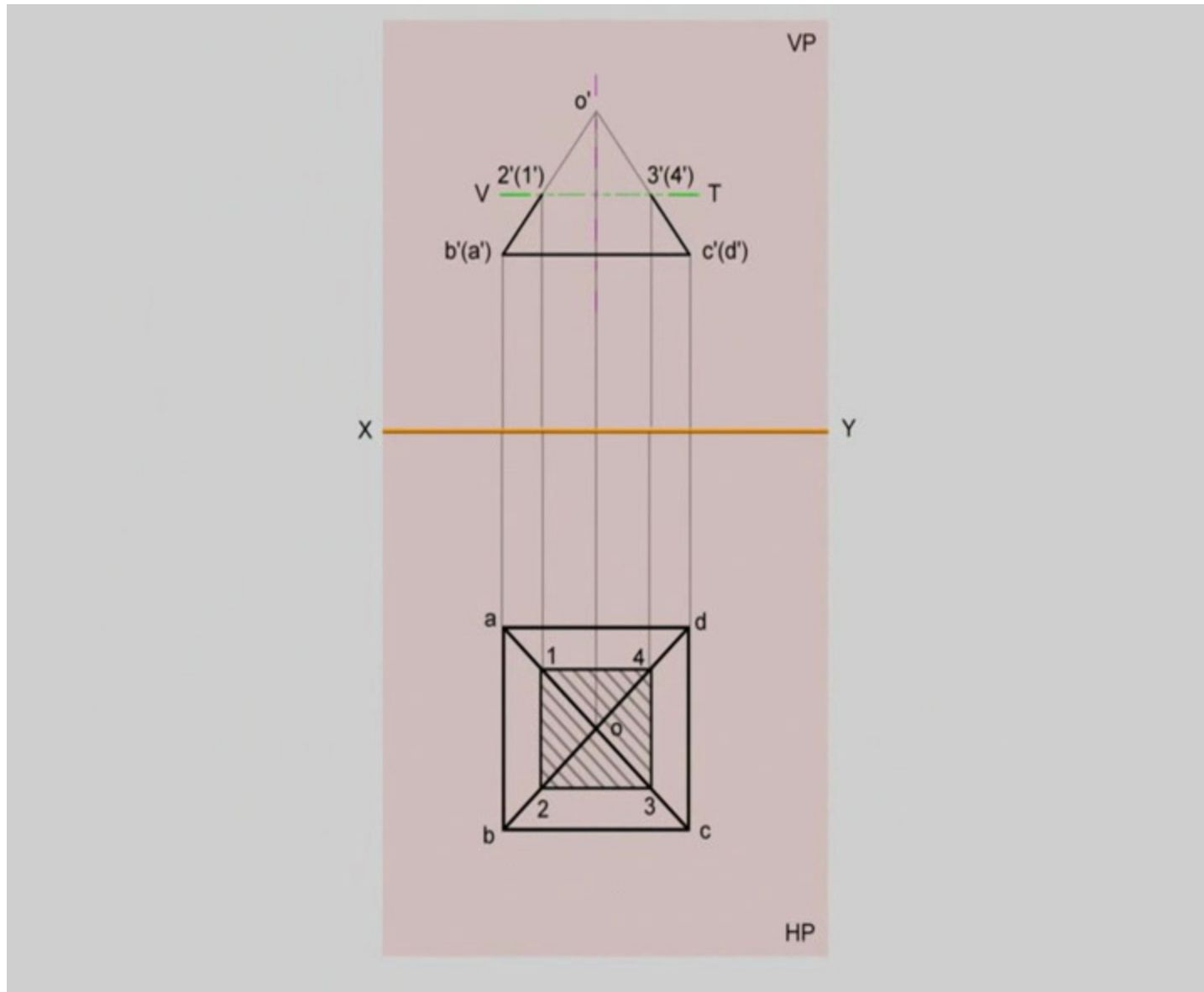
# Types of sectional views (sectional front view)



# Types of sectional views (sectional top view)

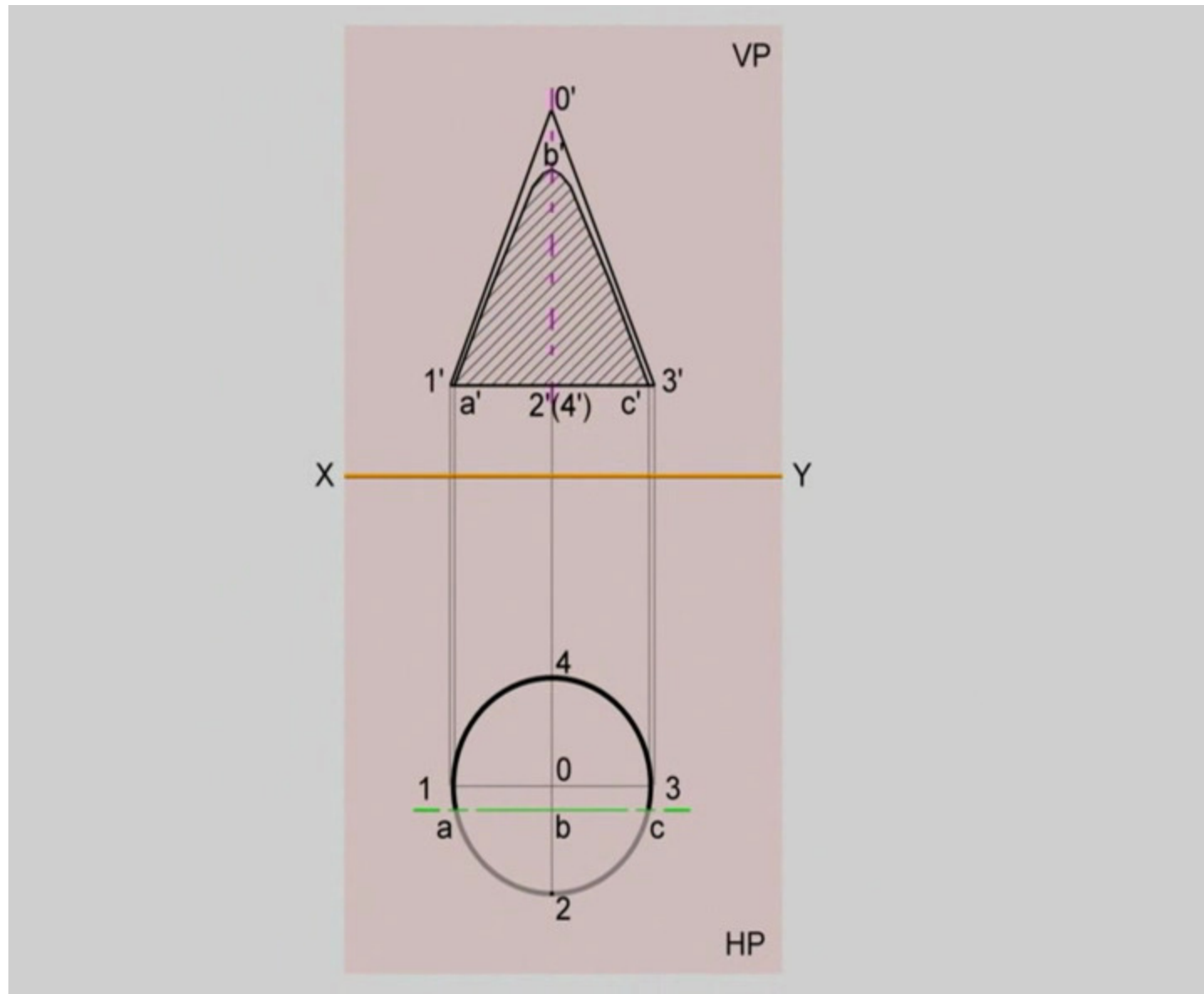


# Example 1

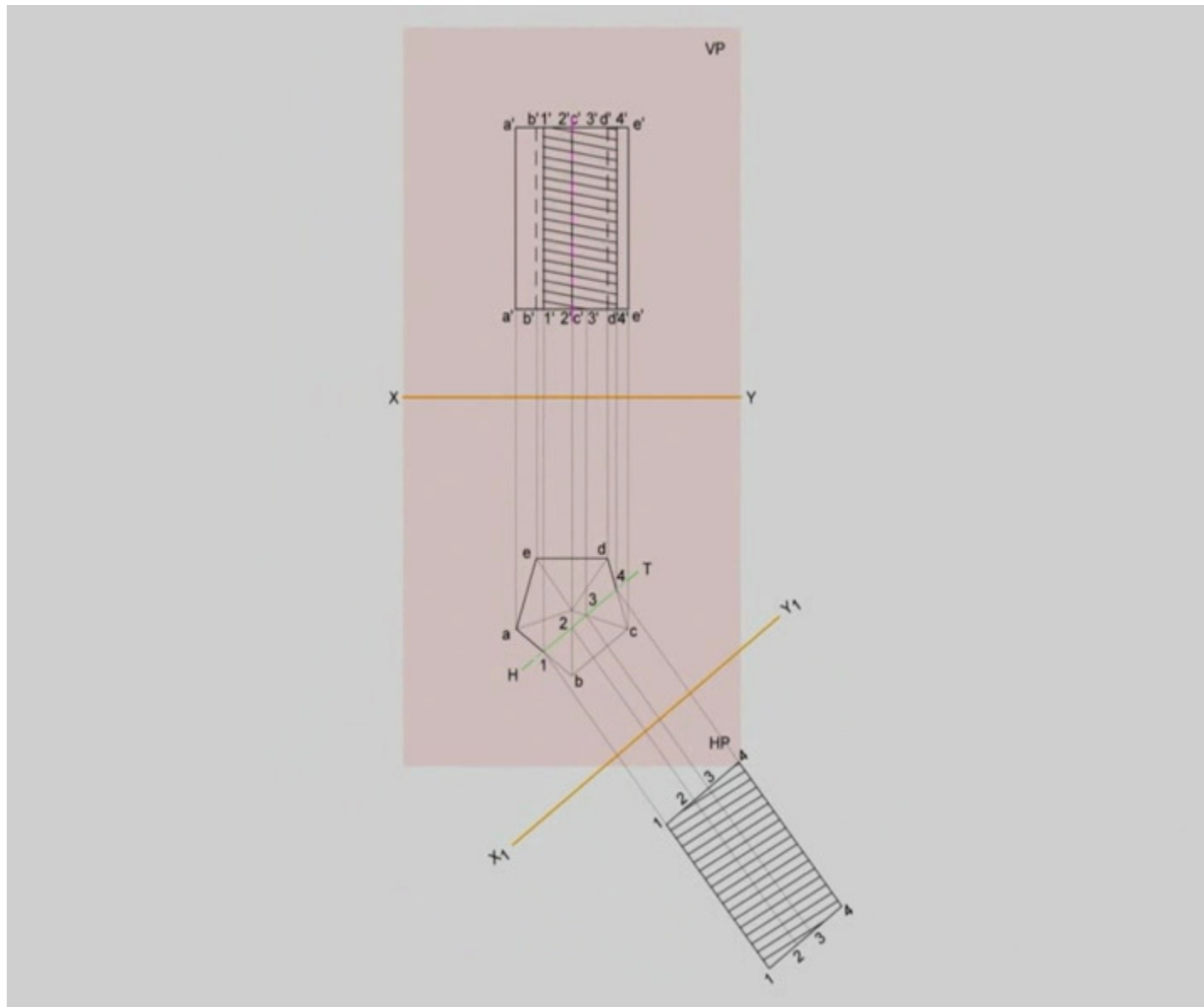




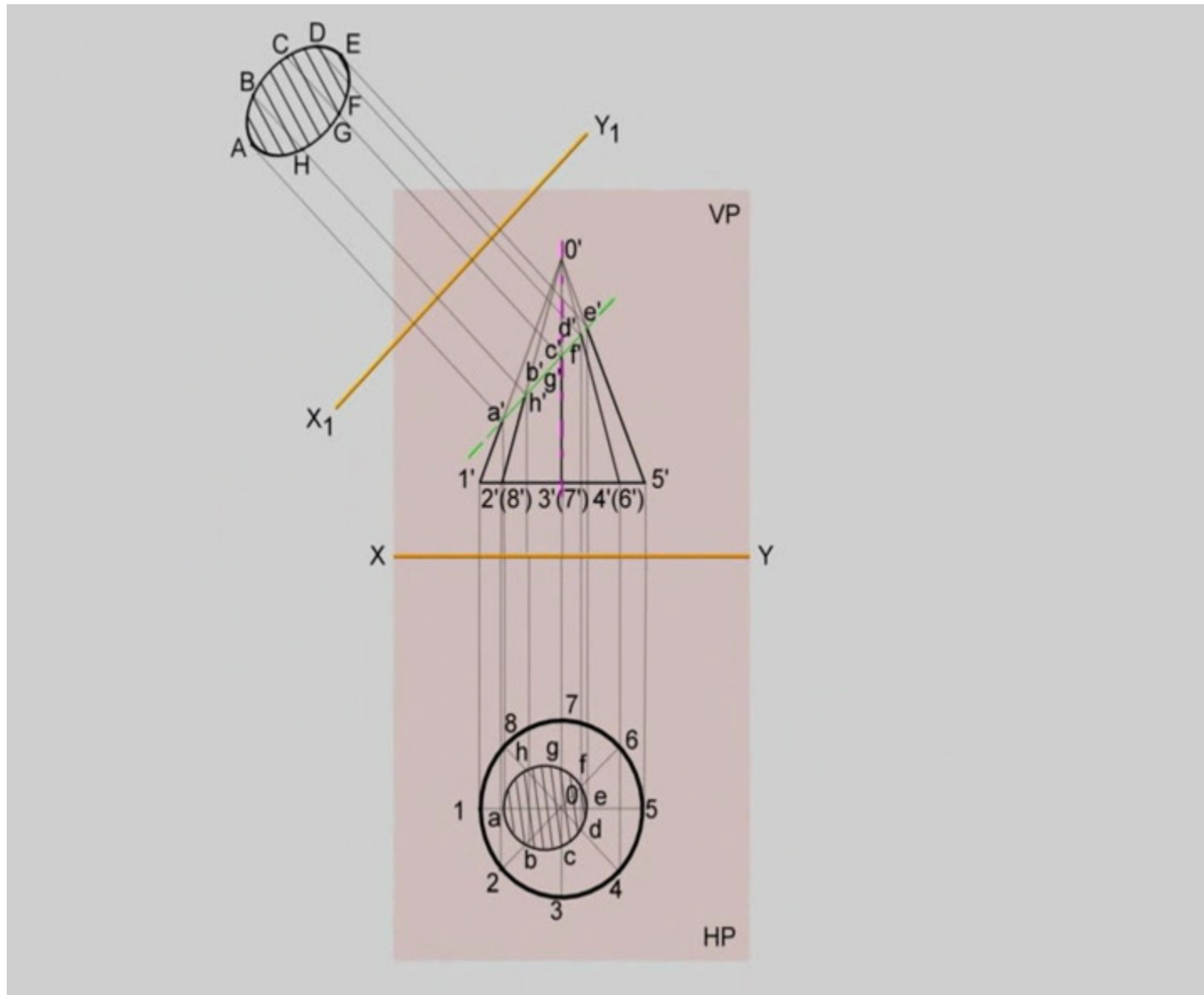
## Example 2



# Example 3

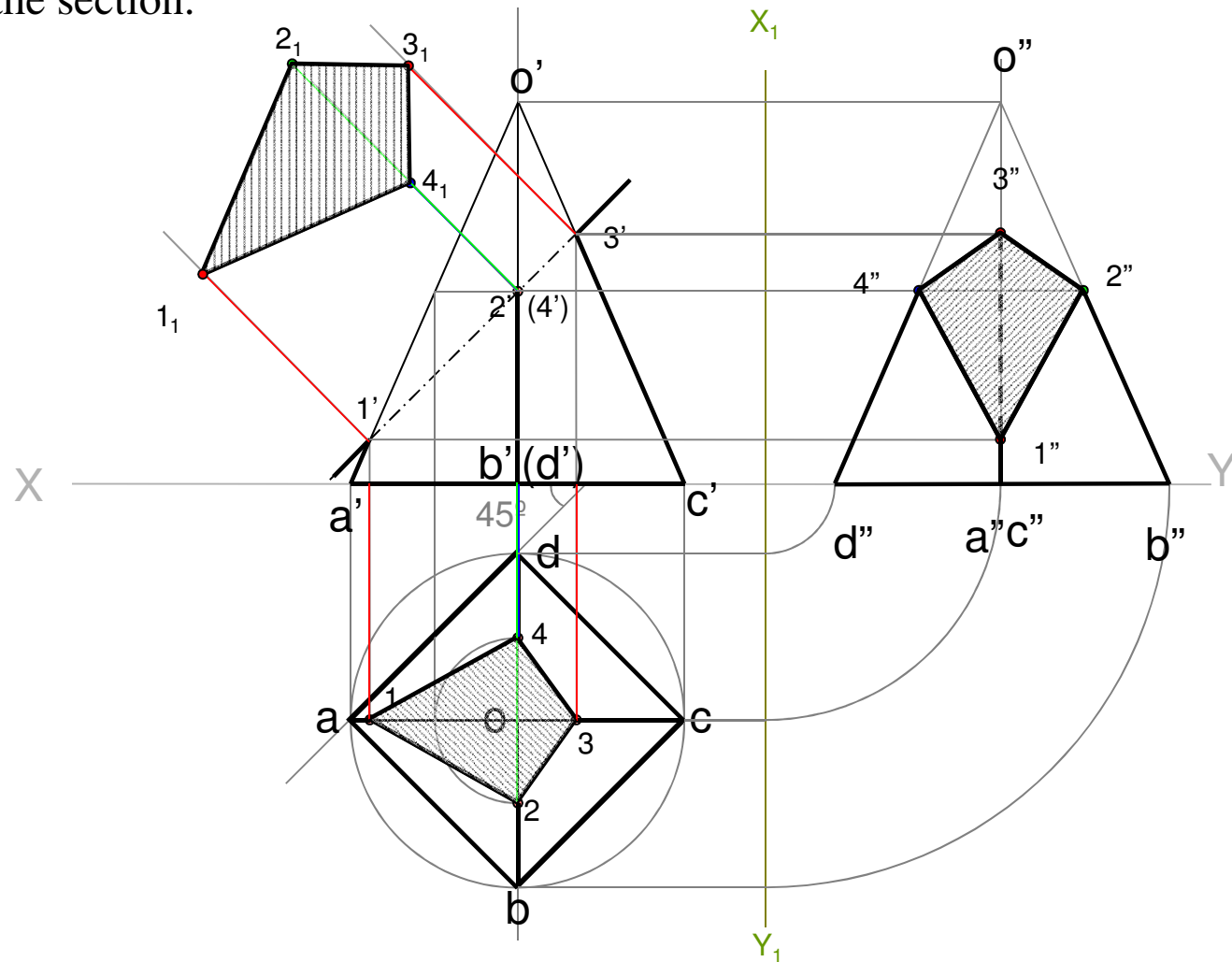


# Example 4



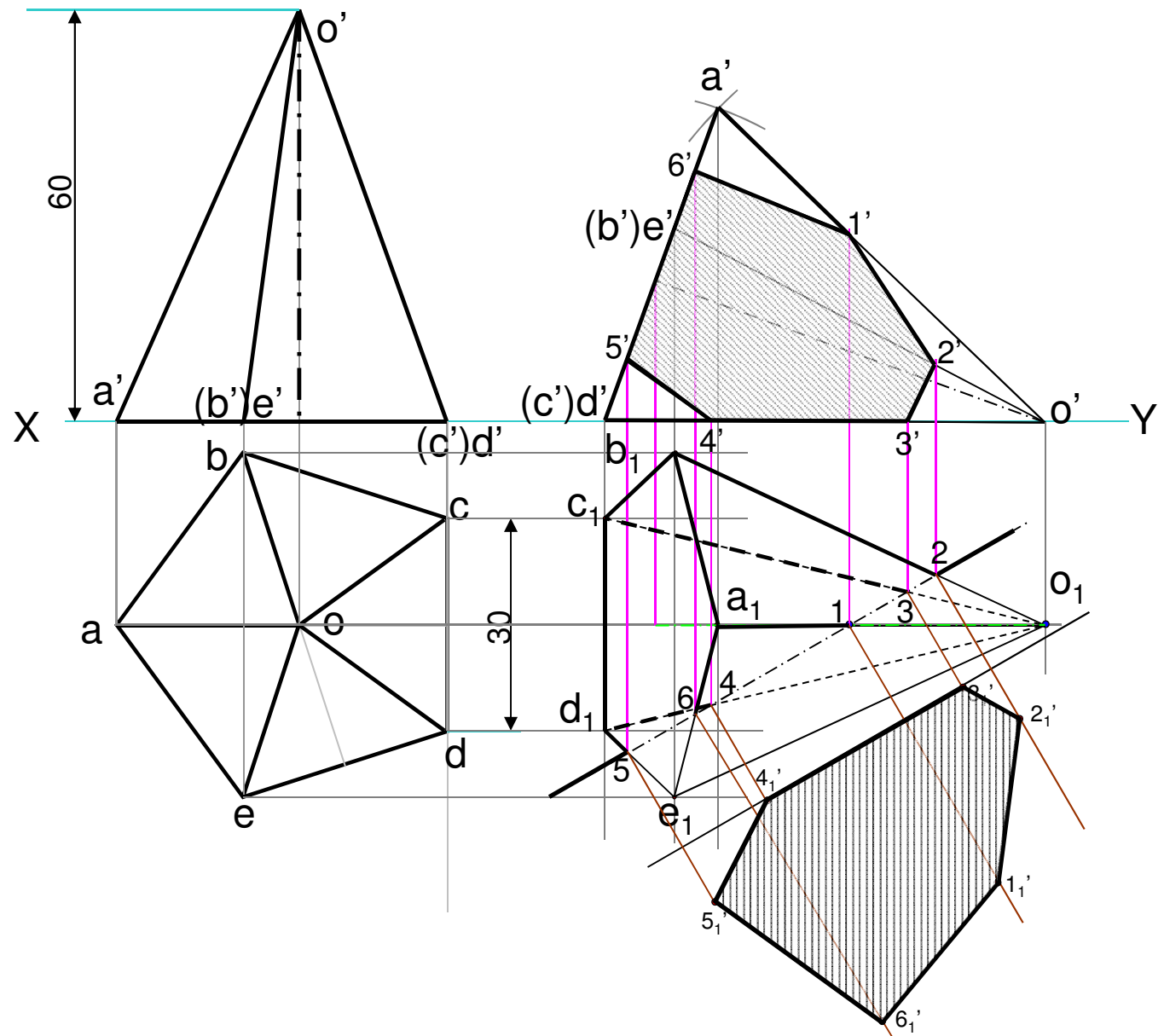
## Example 5

A square pyramid, base 40 mm side and axis 65 mm long, has its base on the HP and all the edges of the base equally inclined to the VP. It is cut by a section plane, perpendicular to the VP, inclined at  $45^\circ$  to the HP and bisecting the axis. Draw its sectional top view, sectional side view and true shape of the section.



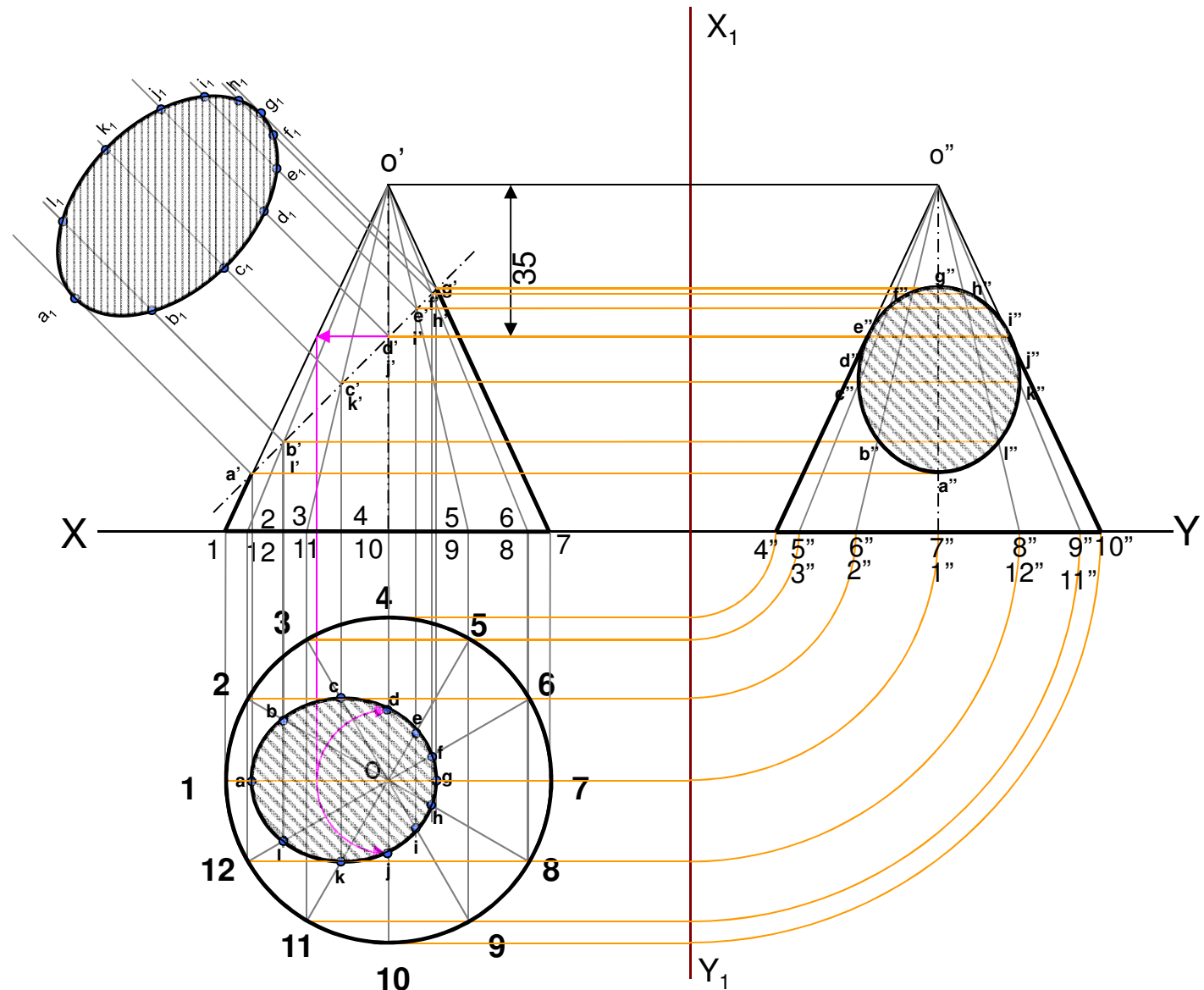
# Example 6

A pentagonal pyramid, base 30mm side and axis 60 mm long is lying on one of its triangular faces on the HP with the axis parallel to the VP. A vertical section plane, whose HT bisects the top view of the axis and makes an angle of  $30^\circ$  with the reference line, cuts the pyramid removing its top part. Draw the top view, sectional front view and true shape of the section?



# Example 7

A Cone base 75 mm diameter and axis 80 mm long is resting on its base on H.P. It is cut by a section plane perpendicular to the V.P., inclined at  $45^\circ$  to the H.P. and cutting the axis at a point 35 mm from the apex. Draw the front view, sectional top view, sectional side view and true shape of the section.





**Thank you**