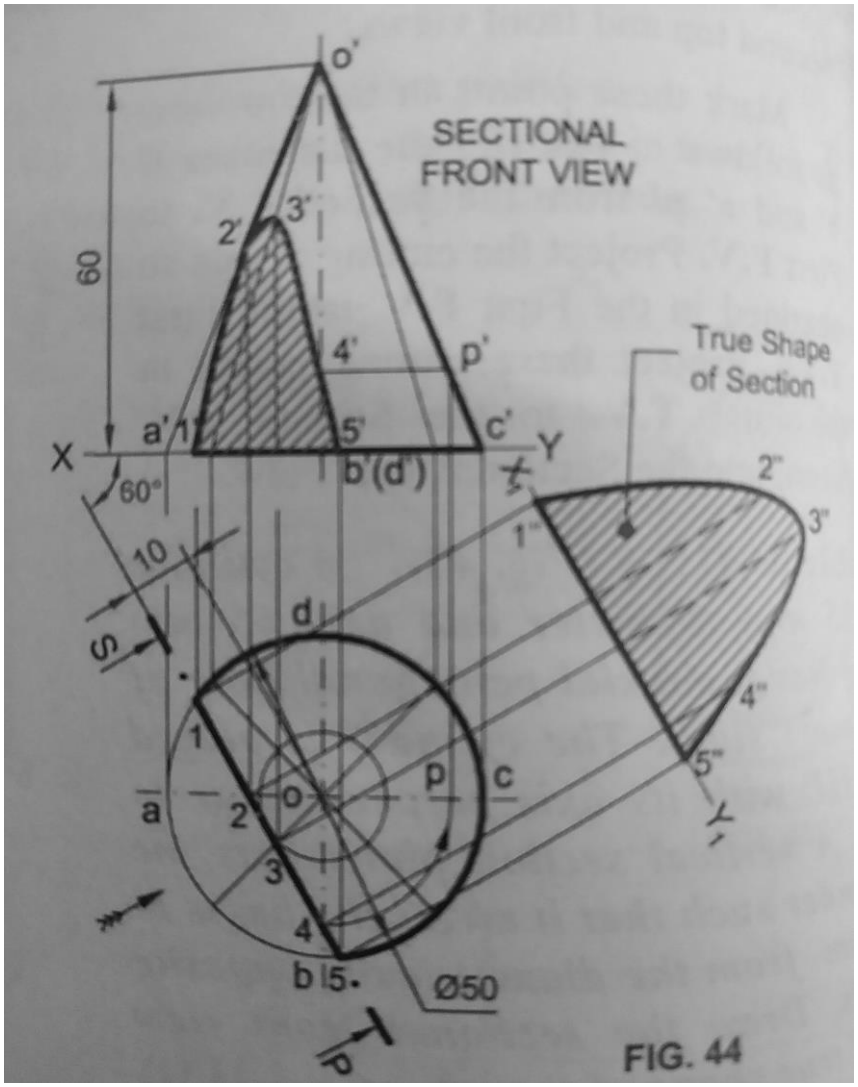
Problem:

A cone, base 50 mm diameter and axis 60 mm long, rests with its base of HP. A section plane perpendicular to HP, inclined at 60 ˚ to VP and at a distance of 10 mm from its axis, cuts it. Draw the sectional front view and true shape of the section.



Steps:

1. Keep the solid in simple position and draw the top view then complete the front view.
2. Pass the section plan perpendicular to HP and inclined to VP for the given inclination.
3. Marks the cutting points in the top view and transfer the cutting points from top view to front view for completing the sectional front view.
4. For obtaining true shape of the section, introduce the additional reference plane and draw the projectors from cutting points from the top view.
5. Marks the cutting points on the respective place.