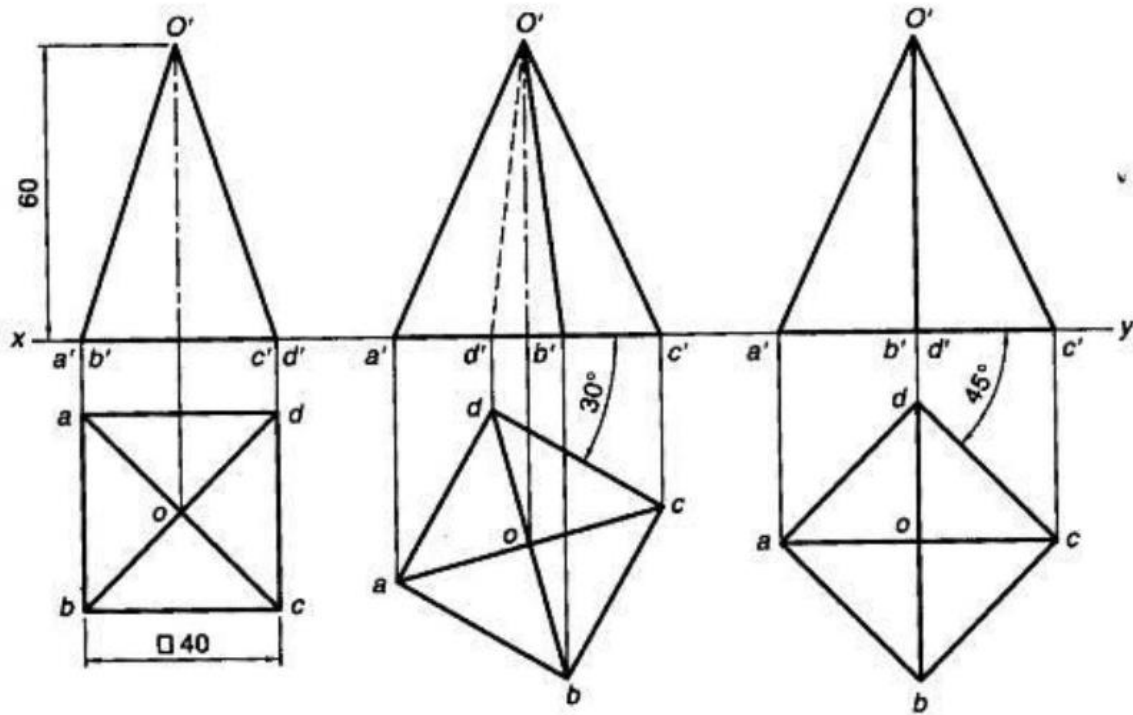**I PROJECTION OF SOLIDS PROBLEMS**

1. Axis perpendicular to HP

Problem:

A Square Pyramid, having base with a 40 mm side and 60mm axis is resting on its base on the HP.Draw its Projections when (a) a side of the base is parallel to the VP. (b) A side of the base is inclined at 300 to the VP and (c) All the sides of base are equally inclined to the VP.
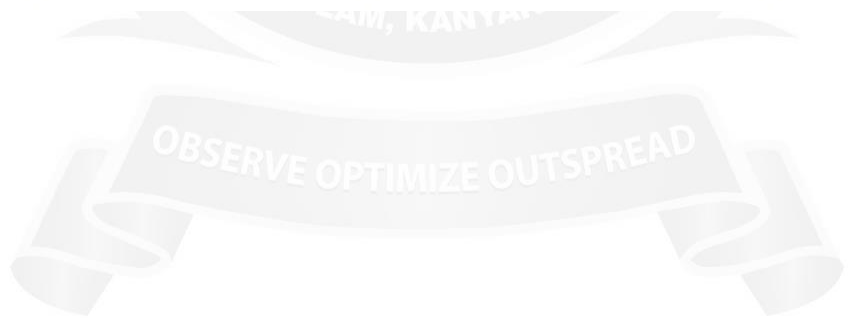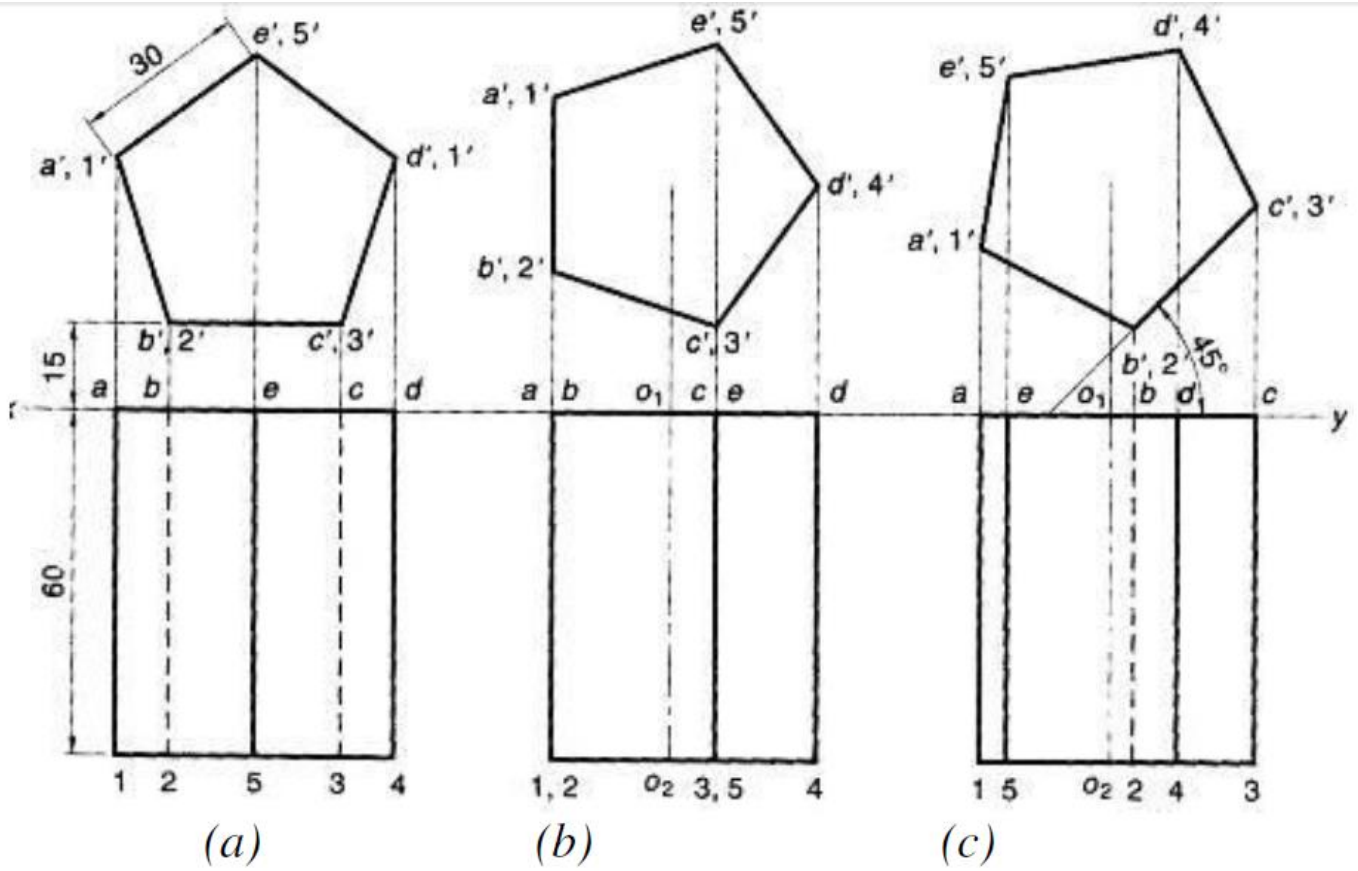
Solution:

(a)   (b)   (c)

2. Axis perpendicular to VP

Problem:

A pentagonal Prism having a base with 30 mm side and 60mm long Axis, has one of Its bases in the VP. Draw Its projections When (a)rectangular face is parallel to and 15 mm above the HP (b) A rectangular face perpendicular to HP and (c) a rectangular face is inclined at 45⁰ to the HP

Solution:

(a)   (b)   (c)

3. Axis parallel to both the HP and VP

Problem:

A pentagonal Prism having a base with a 30 mm side and 60mm long axis, is resting on one of its rectangular faces on the HP. with axis parallel to the VP. Draw its projections?

Solution: