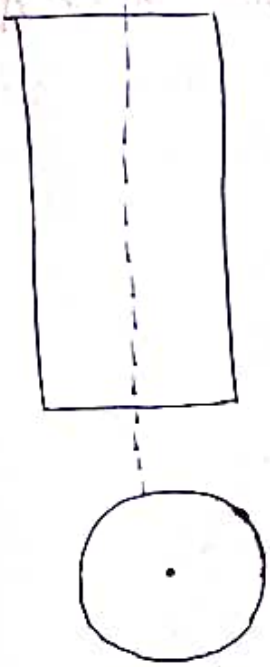
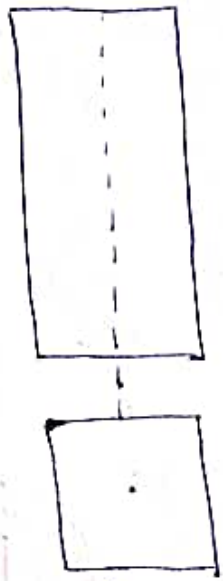
UNIT-III Projection of Solids

Cylinder



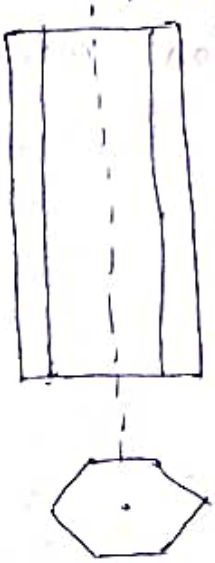
Square prism



Prism

Pentagonal prism

Hexagonal prism

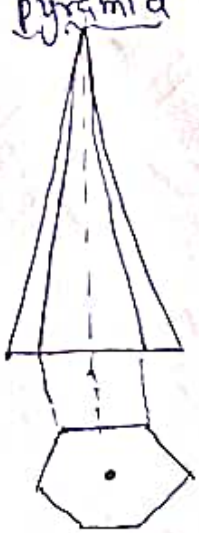


Pyramid

Square pyramid

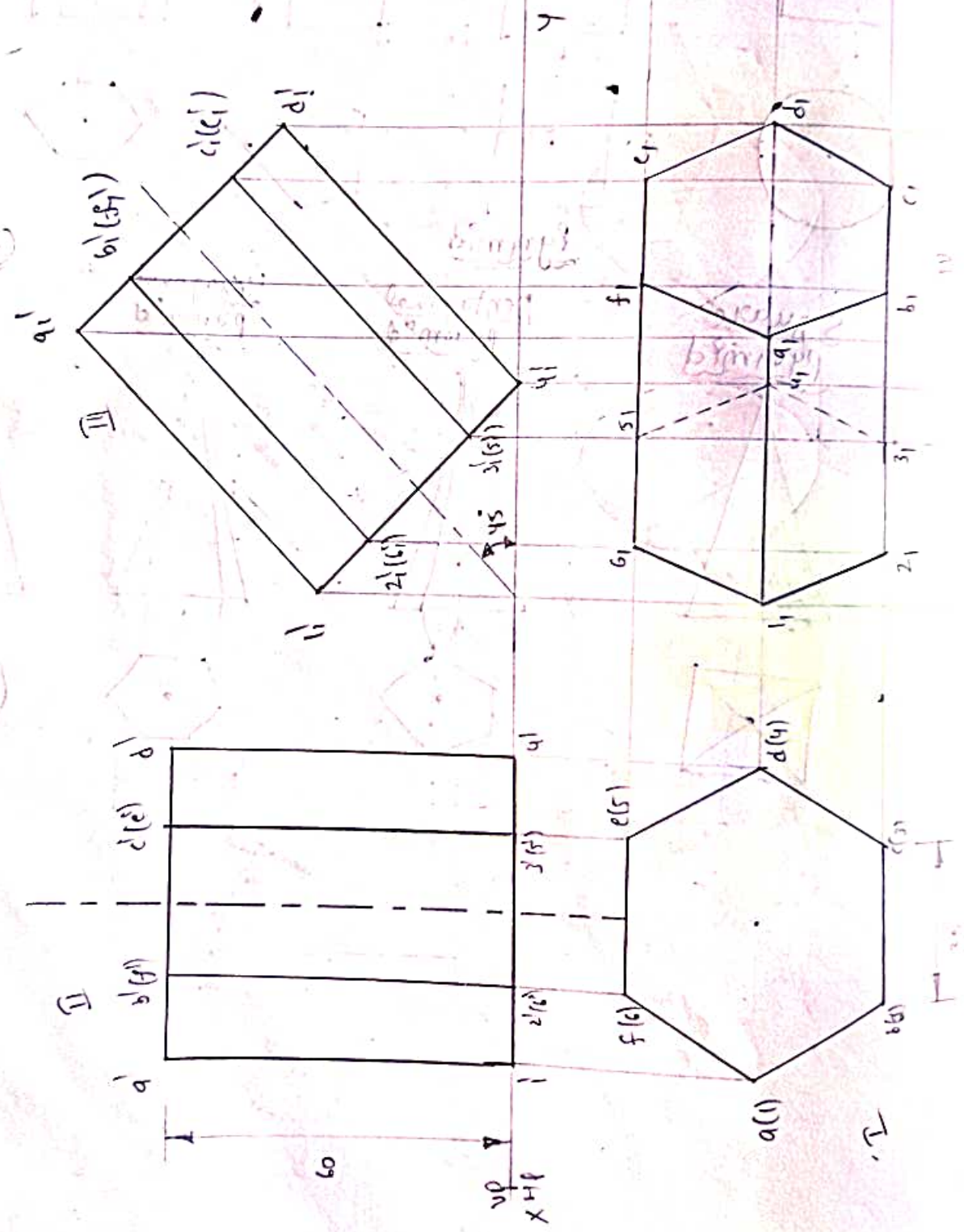
Pentagonal pyramid

Hexagonal pyramid

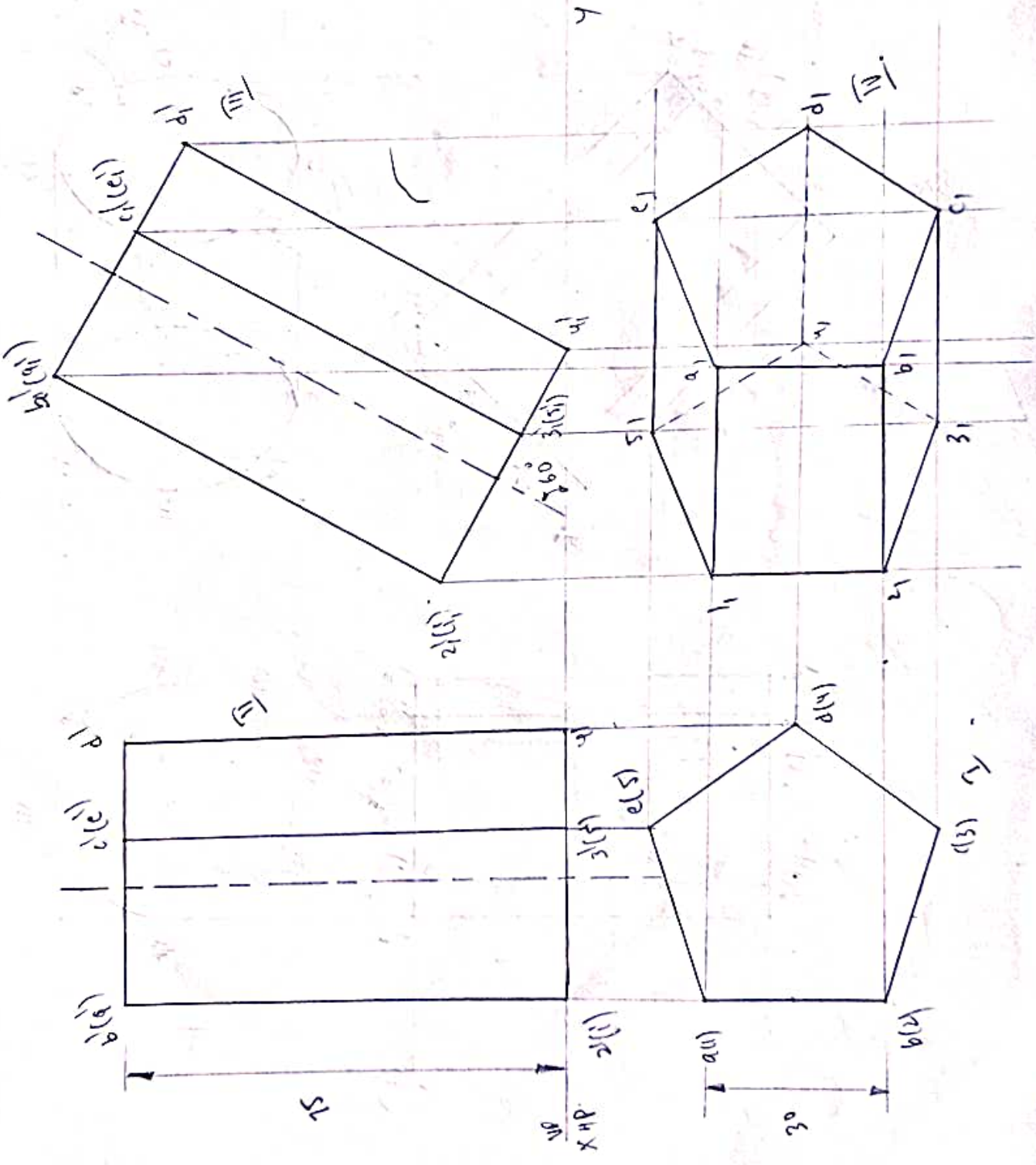


Cone

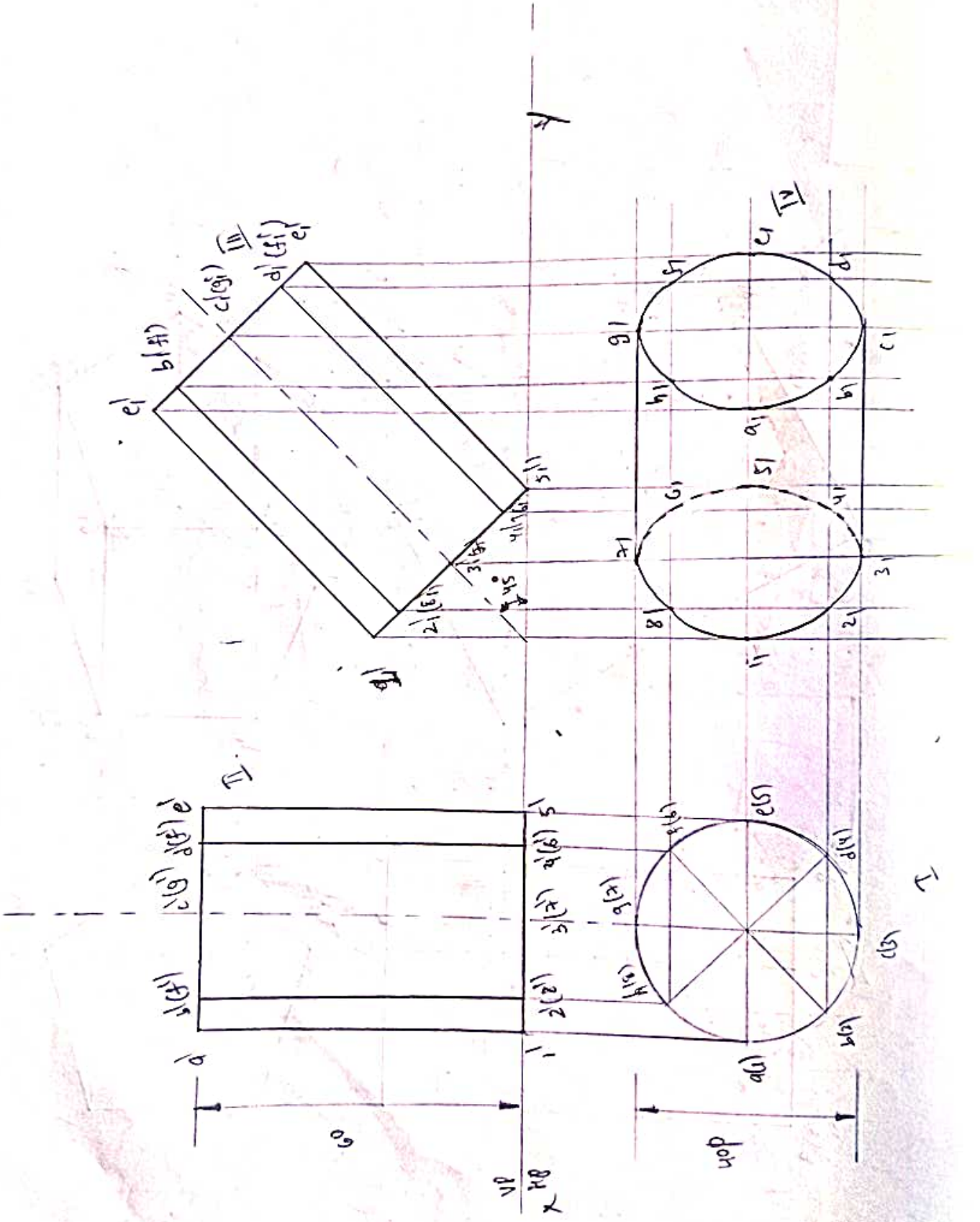
① Draw the projections of a hexagonal prism of base 25mm side and axis 60mm long, when it is resting on one of its base corners on HP. The axis of the solid is inclined at 45° to HP. Follow the change of position method.



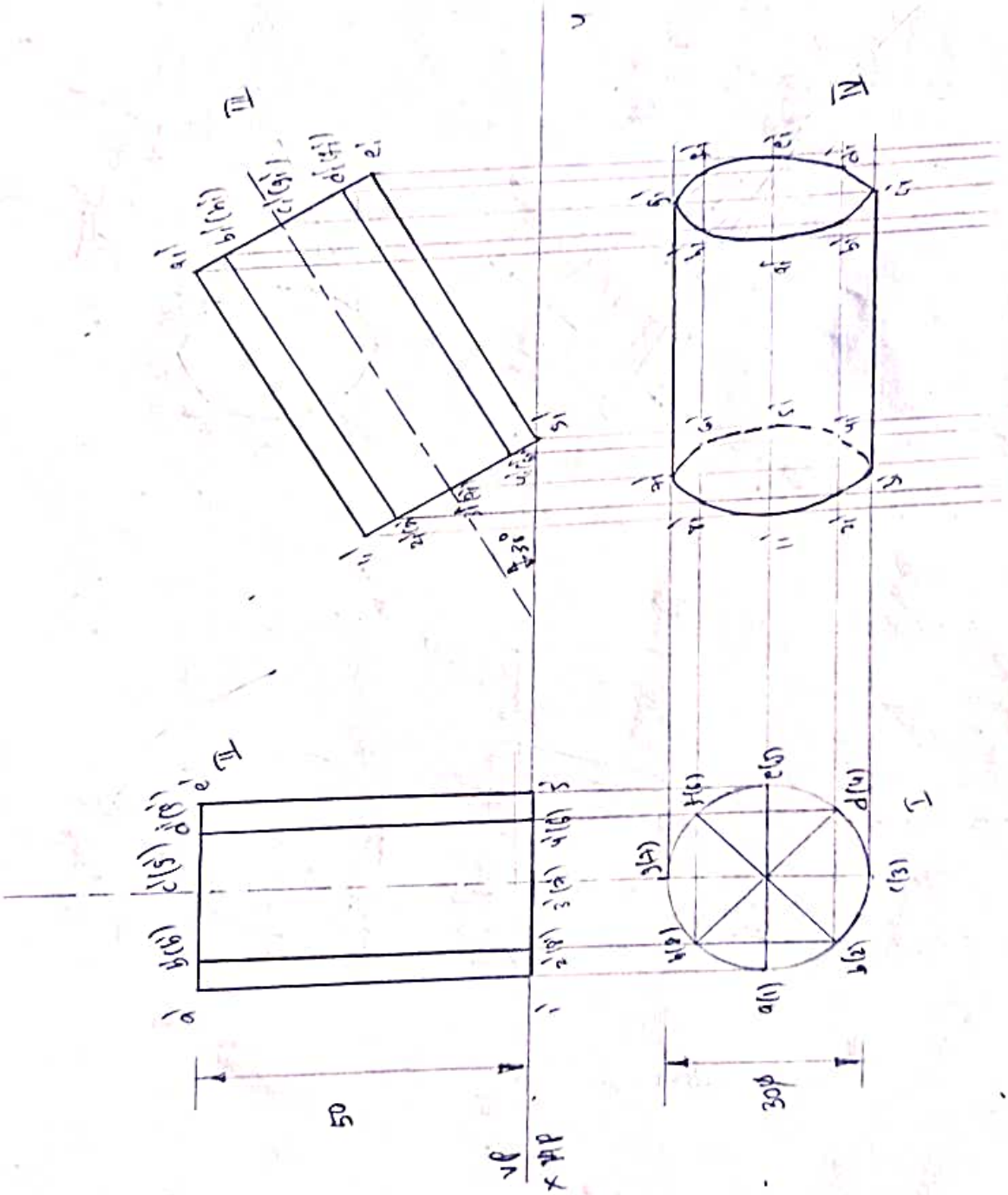
② A pentagonal prism, having base with a 30mm side and 75mm long axis, has a corner of its base on the ground and axis is inclined at 60° to the HP. Draw its projections if the plane containing that corner. The axis is parallel to the VP.



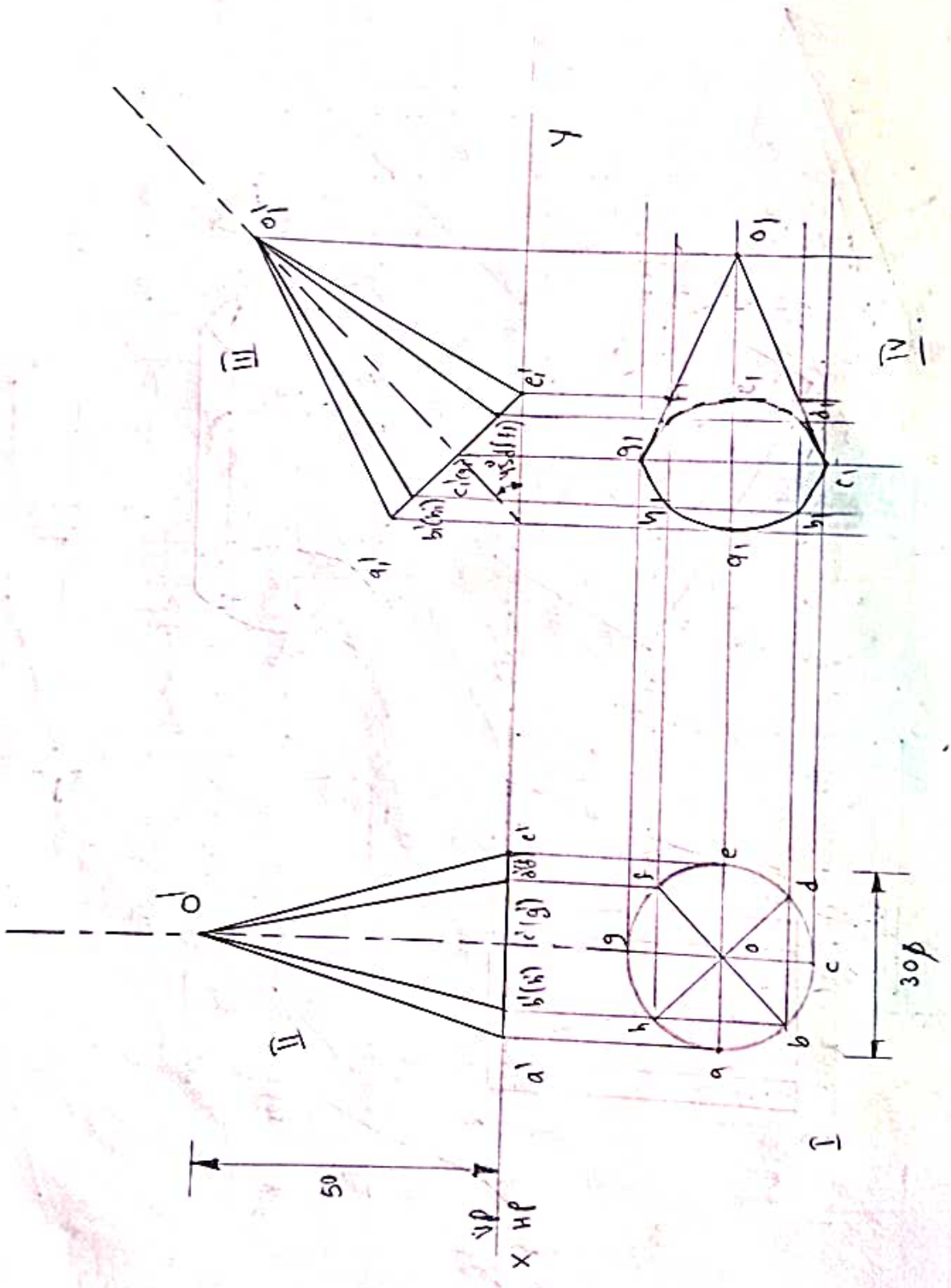
(3) Draw the projections of a cylinder of 40mm diameter and axis 60mm long when it is lying on HP, with its axis inclined at 45° to HP and parallel to VP. Follow the change of position method.



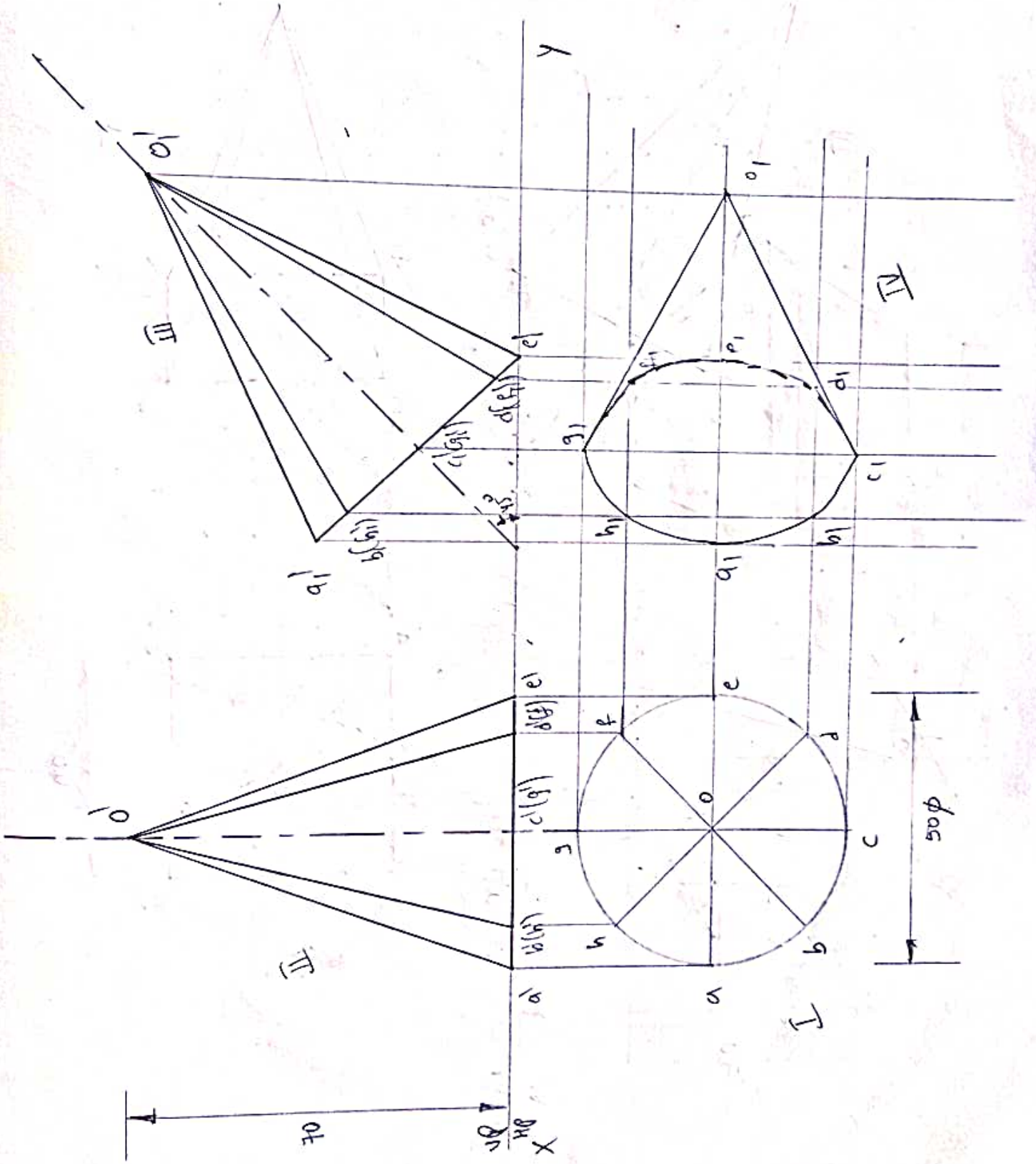
(4) Draw the projections of a cylinder base 30mm diameter and axis 50mm long, rest with a point of its base circle on HP, such that the axis is making an angle of 30° with HP and parallel to VP.



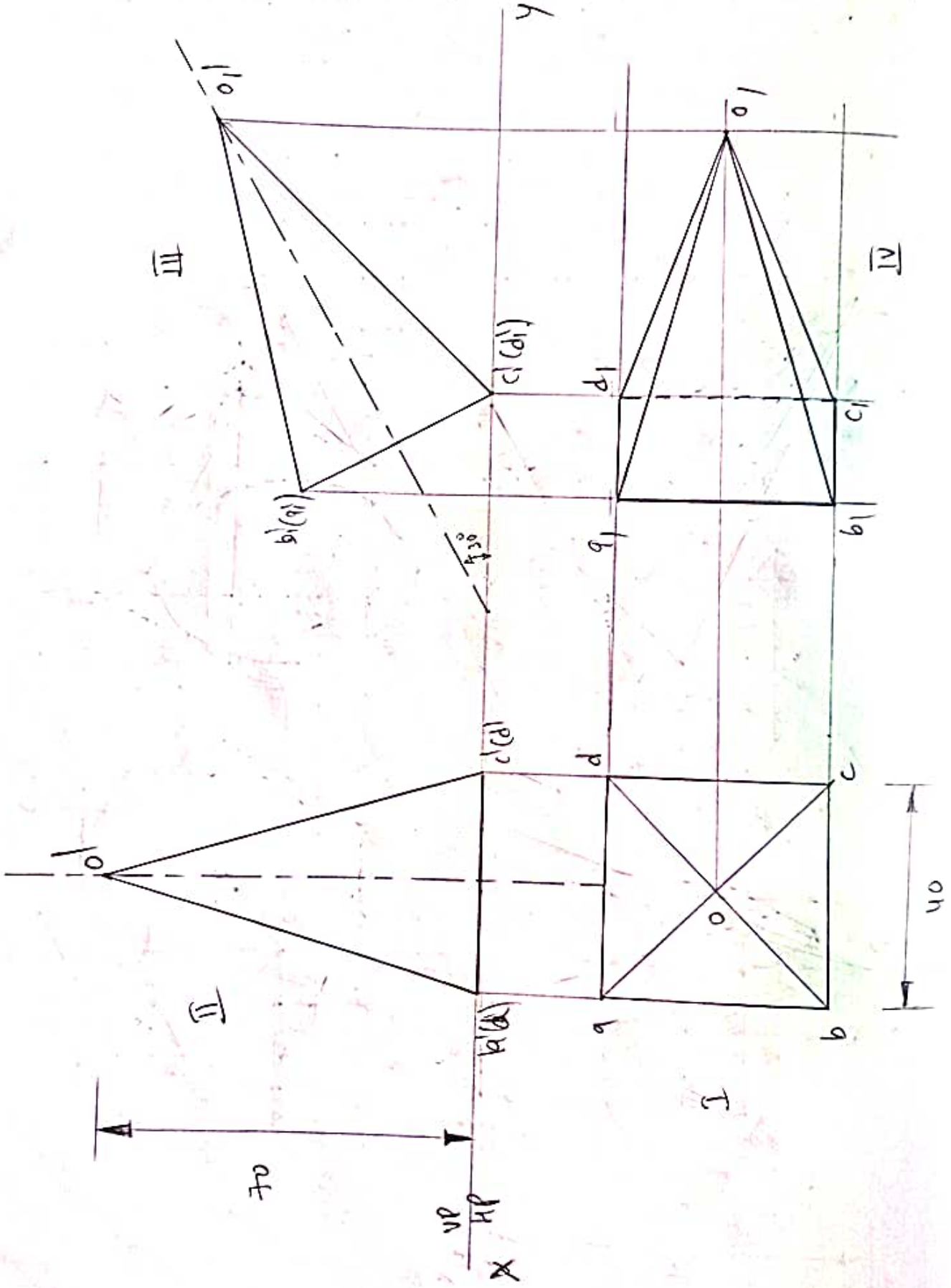
⑤ Draw the projections of a cone base 30mm diameter and axis 50mm long, resting on HP, on the point of its base circle with the axis making an angle of 45° with HP and parallel to VP.



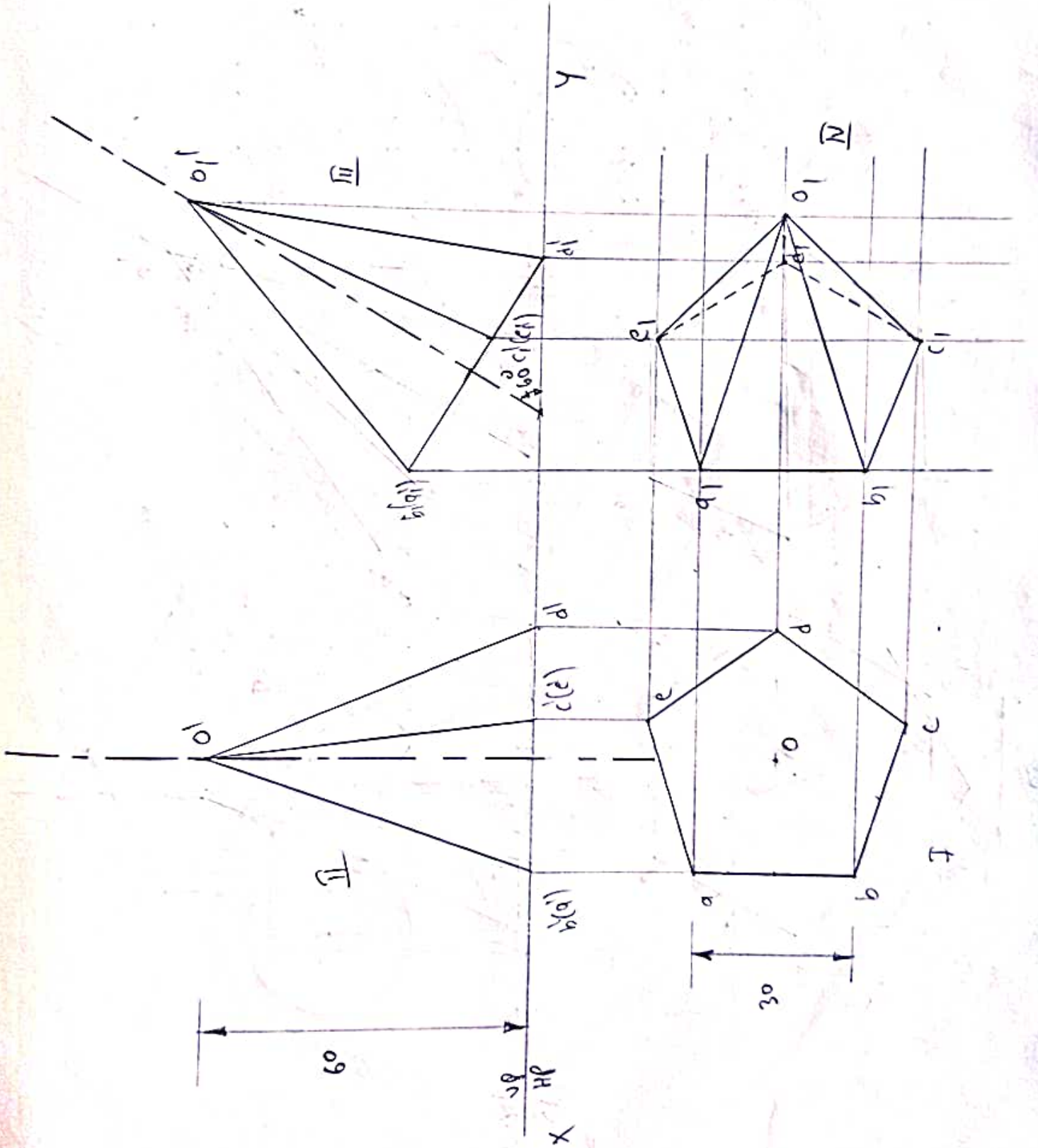
⑥. A cone having 50mm diameter and 70mm long axis has a point of its base circle in the VP such that the axis is inclined at 45° to the HP and parallel to the VP. Draw its projections.



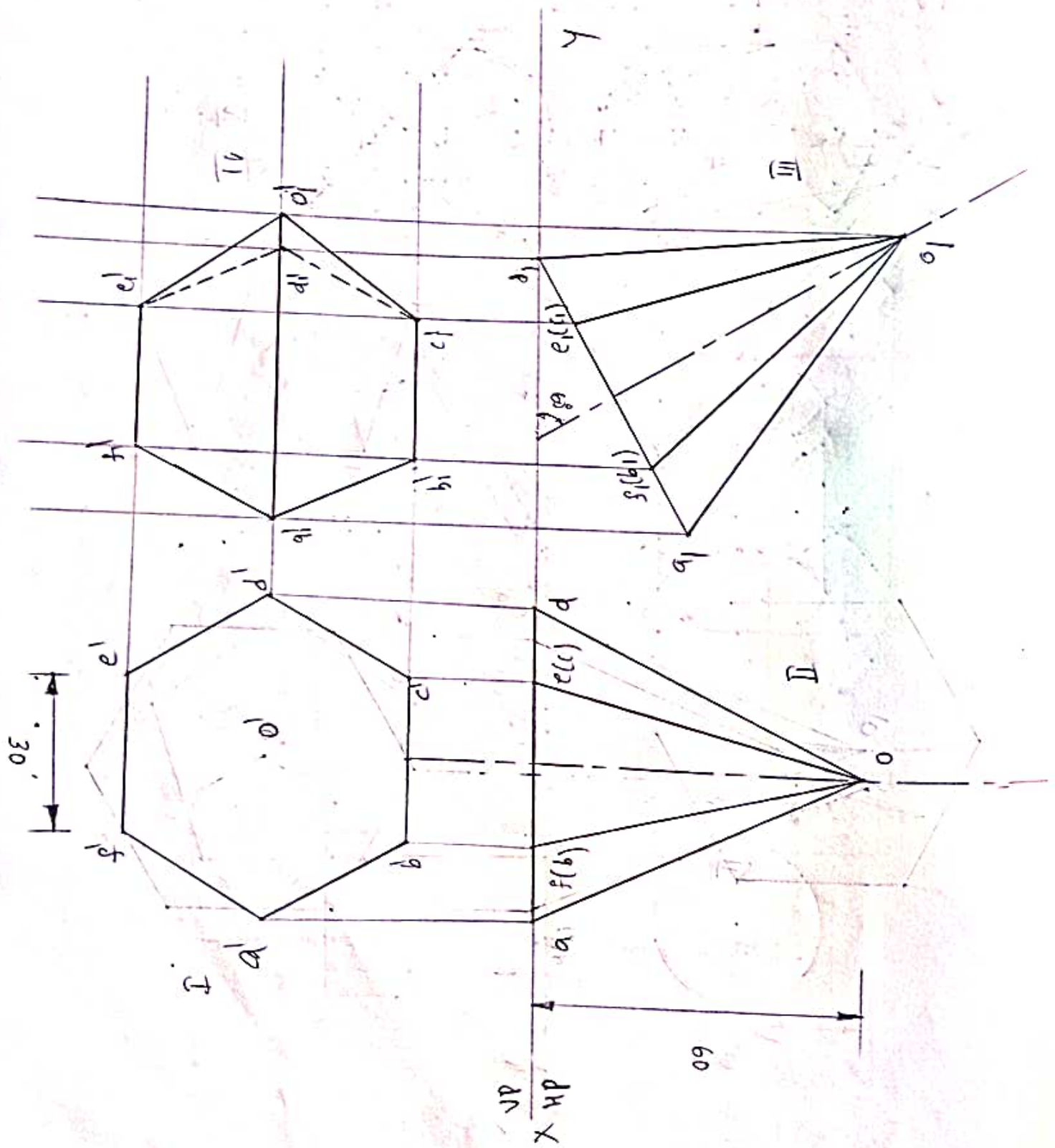
(7) A square pyramid with side of base 40mm and axis 70mm long is resting on HP. Its axis is inclined at 30° to the HP. Draw its projections.



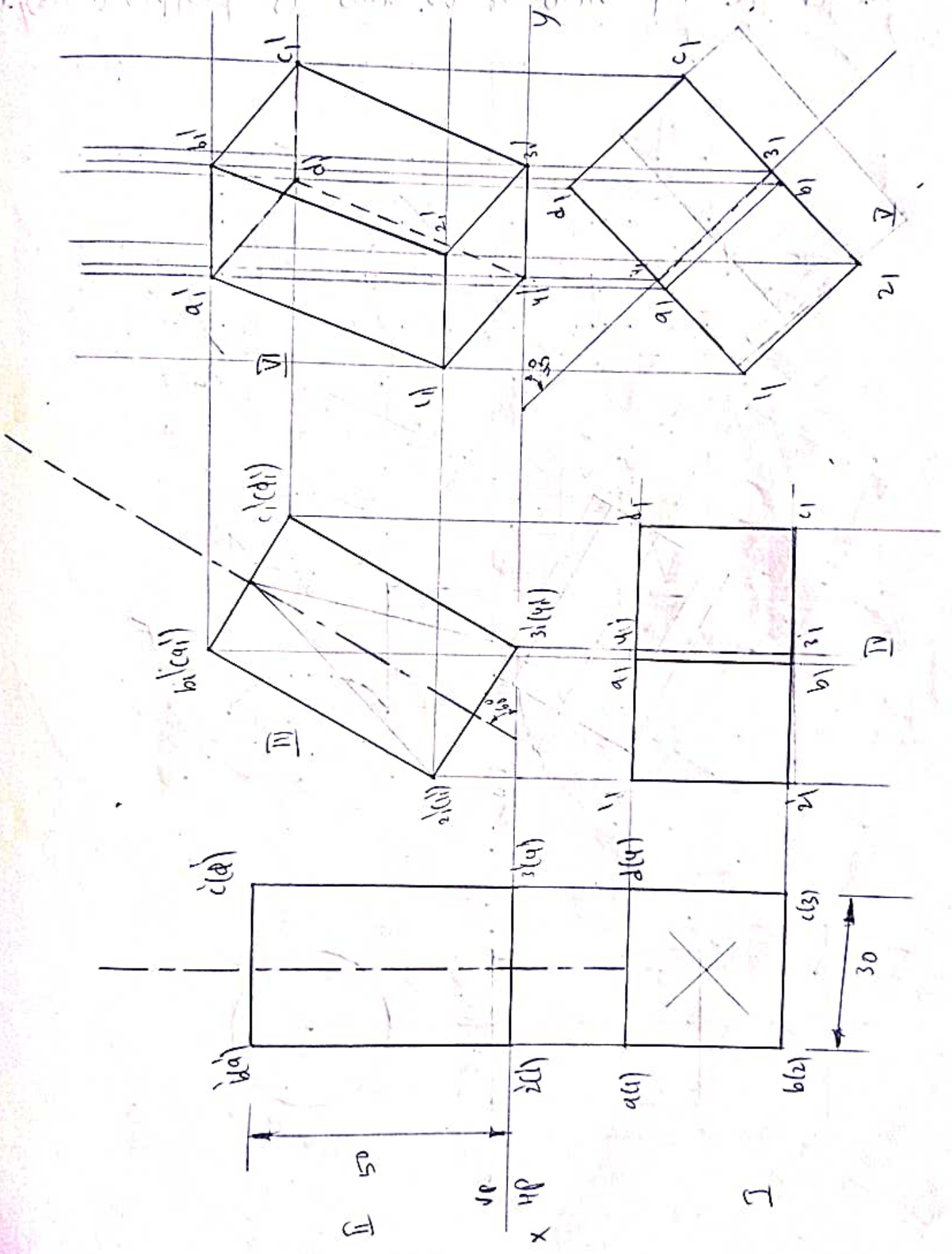
(8). A pentagonal pyramid with side of base 30mm and axis 60mm long is resting on HP on an edge of its base. It's base is inclined at 60° to HP. Draw its projections.



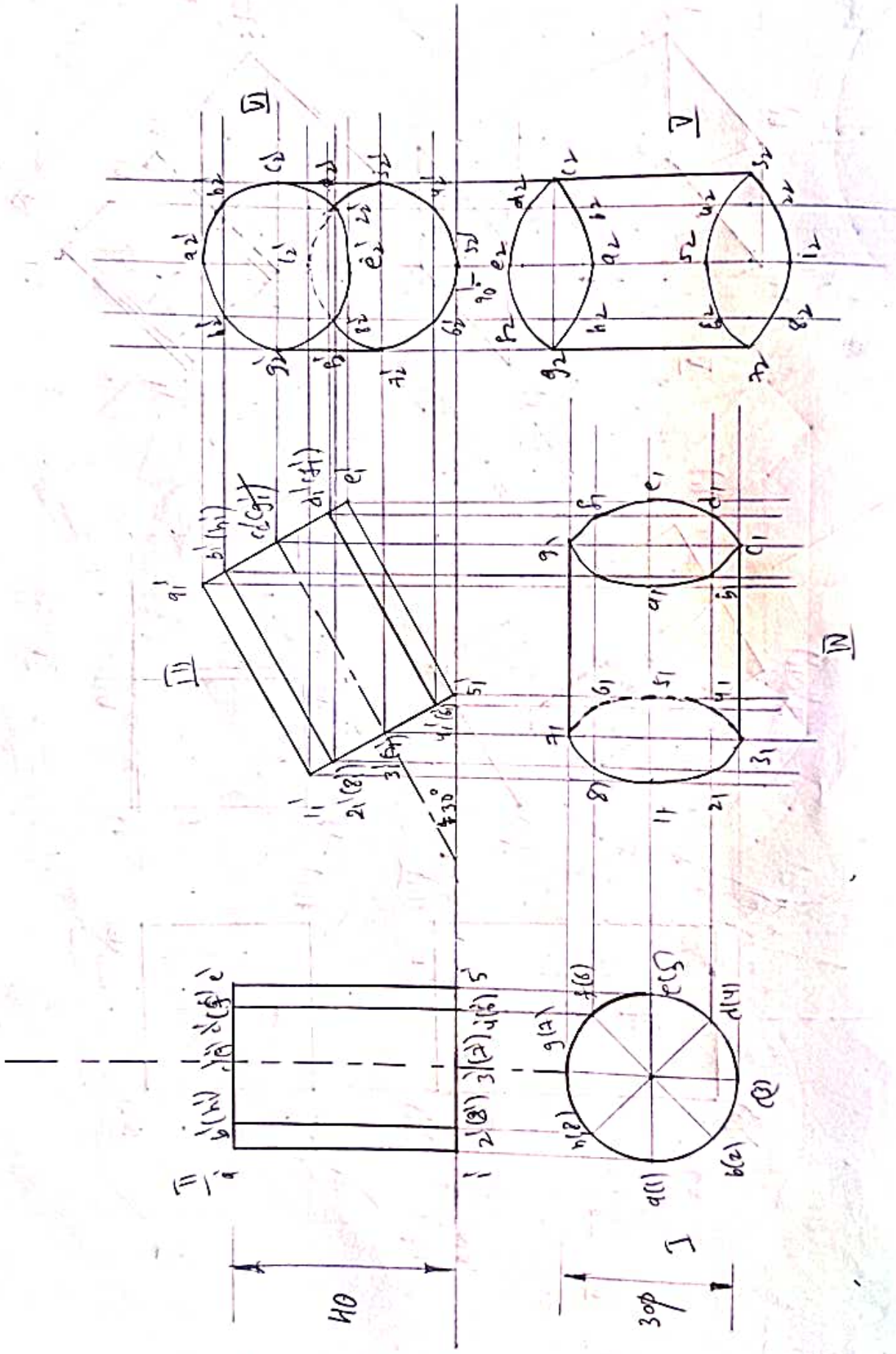
⑨ Hexagonal pyramid with side of base 30 mm and axis 60mm long is resting on HP on an edge of its base. It's base is inclined at 60° to HP. Draw its projections.



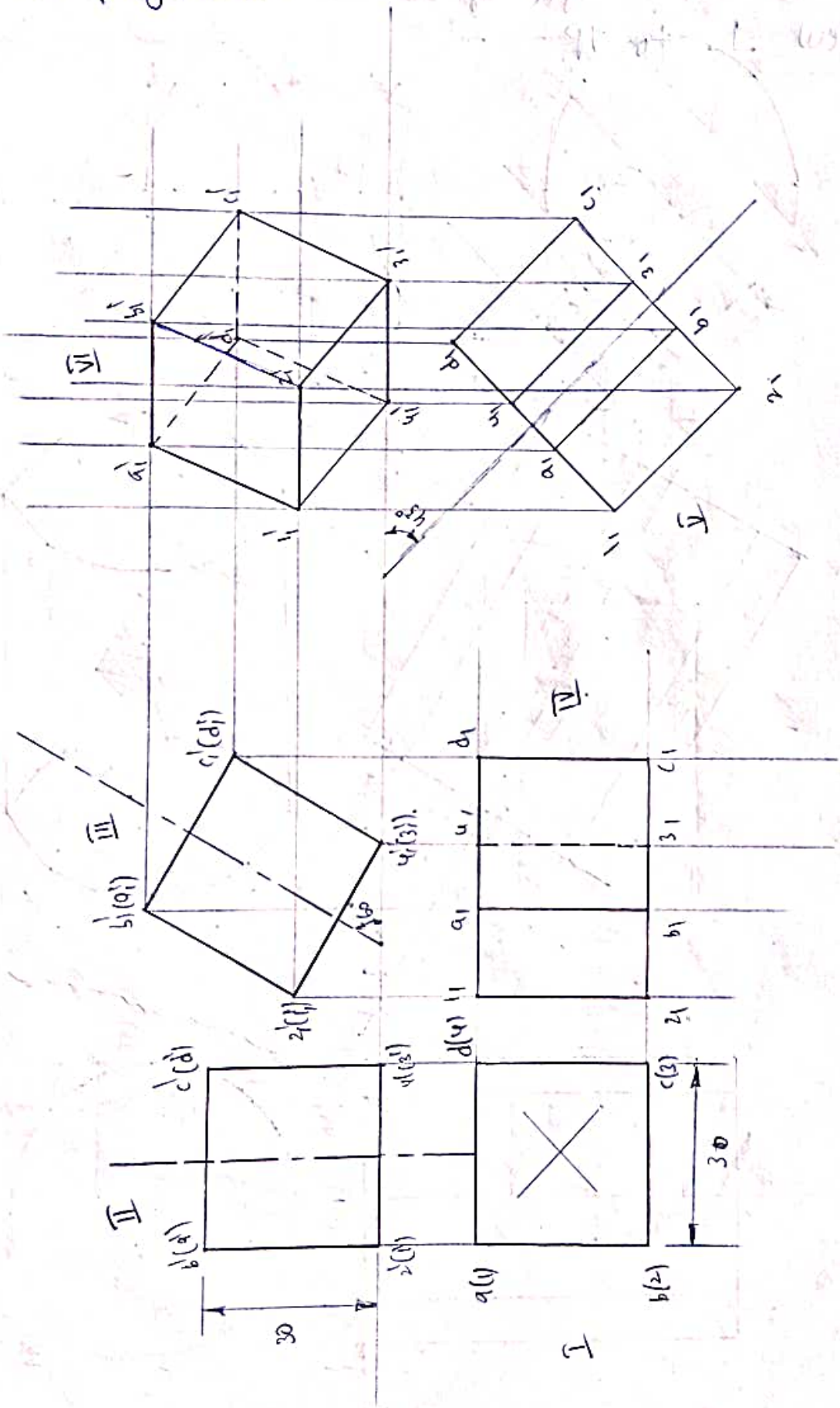
(10) A square prism, side of base 30mm and axis 50mm long, has its axis inclined at 60° to HP. It has an edge of its base in the HP and inclined at 45° to VP. Draw its projections.



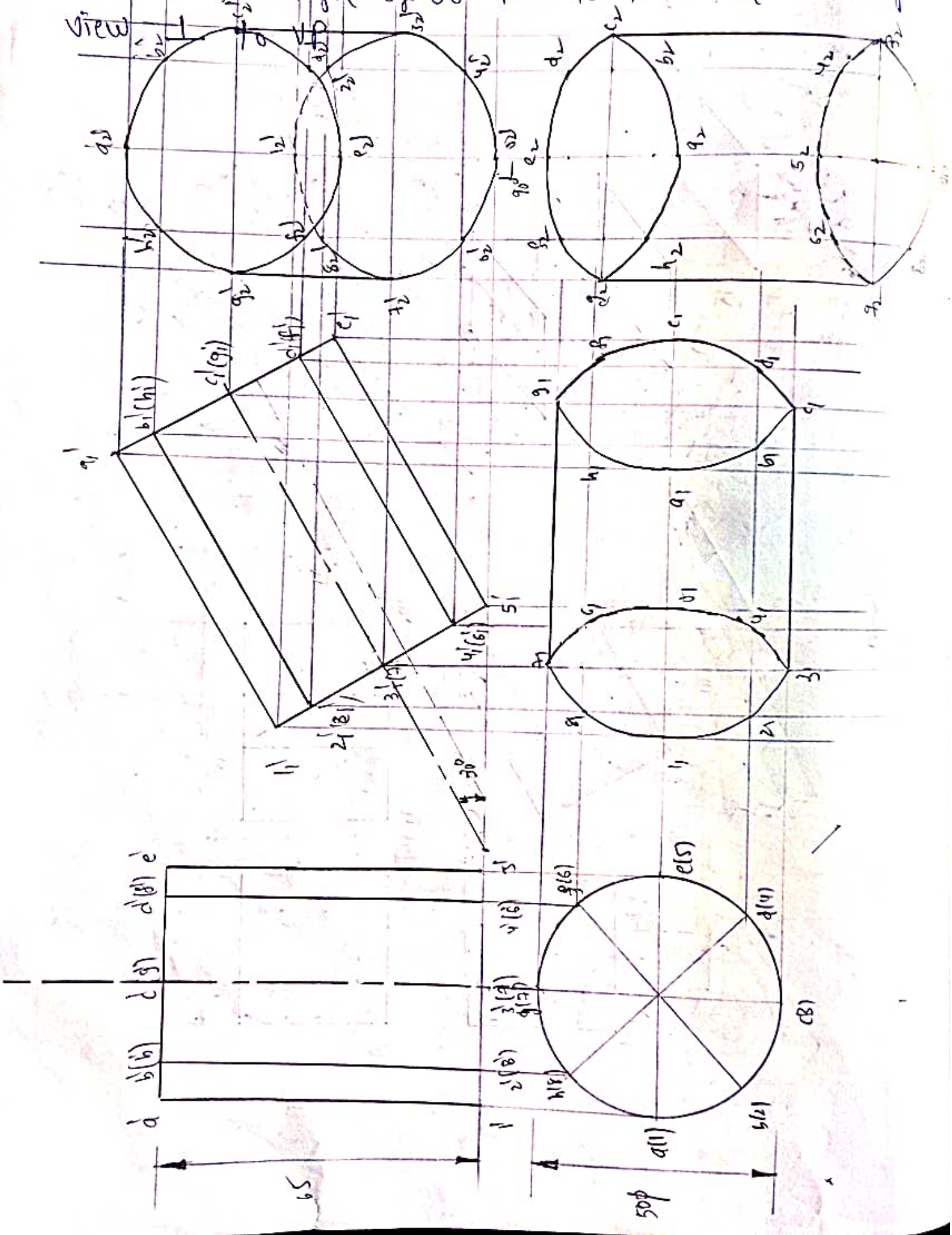
(11) Draw the projections of a cylinder of base 30mm diameter and axis 40mm long which lies on HP on a point of its rim, with its axis inclined at 30° to the HP. The top view of the axis is perpendicular to



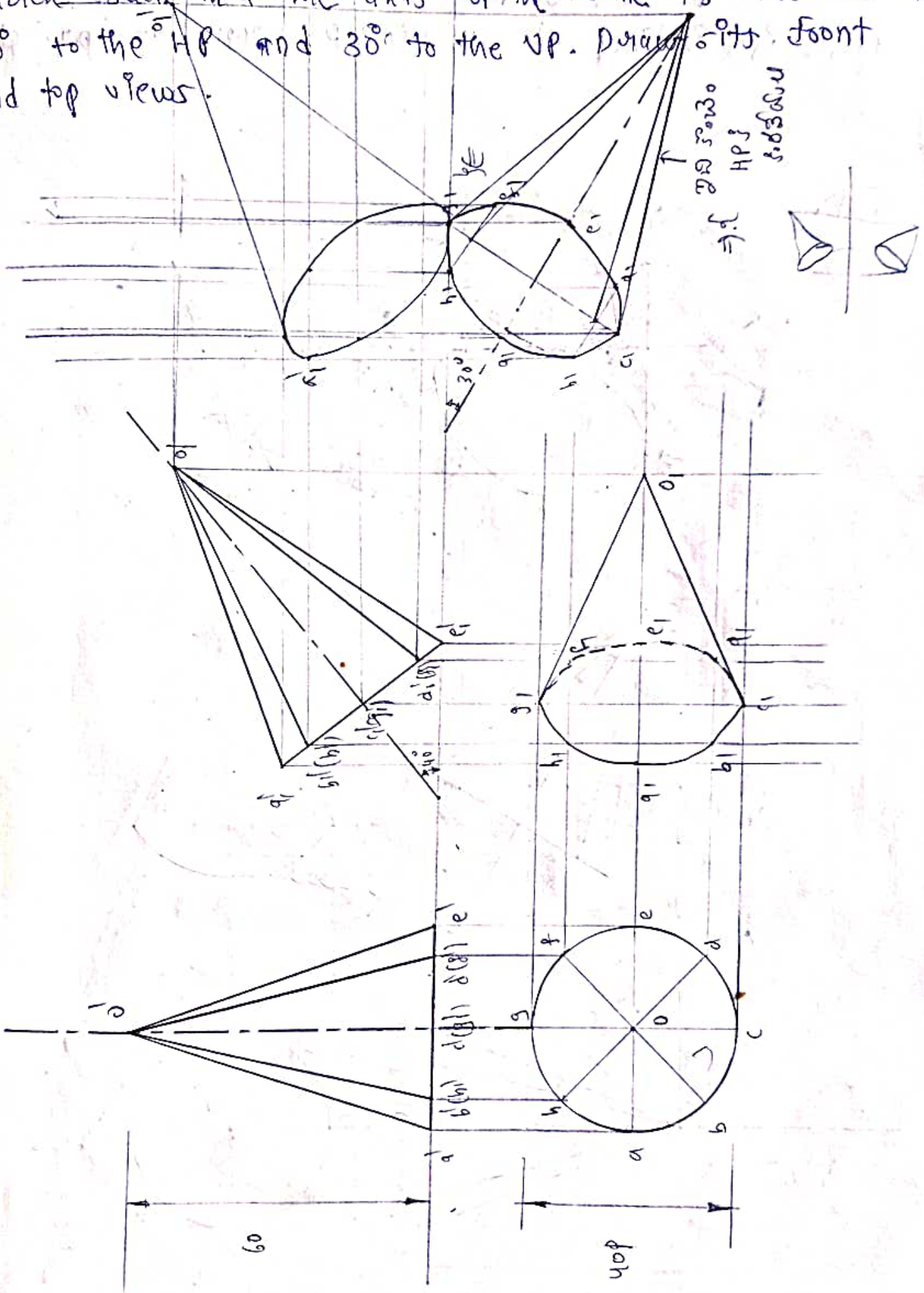
(12). A cube (side of base 30mm and axis 30 mm long) has its axis inclined 60° to HP. It has an edge of its base in the HP and inclined at 45° to VP. Draw its projections..



(13) A cylinder having a base with a 50mm diameter and 85mm long axis rest on a point of its base circle on the HP. Draw its projections when the axis is inclined at an angle of 30° to the HP. and its top view



(14). A cone of base diameter 40mm and axis height 60mm rest on the ground on a point of its base circle such that the axis of the cone is inclined at 40° to the HP and 30° to the VP. Draw its front and top views.



(15) A cone 40mm base and axis 50mm long touches on VP on point of its base circle. The axis is inclined at 30° to VP and the front view of the axis is inclined at 45° to HP. Draw its projections.