

CW -6. PROJECTION OF SOLID

1. A cylinder diameter of base 60mm and height 90mm, is resting on the H.P. on the point of the periphery of the base. The axis of cylinder is inclined to H.P. by 30° and
 - (i). Top view of the axis is inclined at 45° to the V.P. and
 - (ii). The axis is inclined at 45° to the V.P.Draw the projection keep top end of the cylinder nearer to V.P. in one case and away from V.P. in other.
2. A cone diameter of base 50 mm and height 75mm, is resulting on the H.P. on the point of its periphery of the base. The axis of the cone is inclined to the H.P. by 30° and to the V.P. by 45° . Draw the projection when
 - (i). Apex is nearer to the observer
 - (ii). Apex is away from the observer
3. A tetrahedron of 75 mm long edges is resting on H.P. on one edge with slant face containing that edge is perpendicular to H.P. The edge on which it rests on H.P. makes 45° with V.P. Draw the projection.
4. A pentagonal pyramid, side of base 35 mm and height 60 mm is resting on the H.P., such that two of its slant edges are on the H.P. and one of which is normal to the V.P. Draw the projection when the apex of the pyramid is nearer to the observer with respect to the base.

HW -6. PROJECTION OF SOLID

1. The frustum of a cone, having bottom base diameter 70 mm, top base diameter 30 mm and axis 50 mm is resting on one of its generator on the H.P. Its T.V. of axis is inclined at 30 degree to the V.P. Draw its projections.
2. A pentagonal prism is resting on one of the corner of its base on the H.P. The longer edge containing that corner is inclined at 45 degree to the H.P. The axis of the prism makes an angle of 30 degree to the V.P. Draw the projection of the solid Take base side 30mm and height 60mm
3. A hexagonal prism is resting on one of its side of base 30 mm, such that axis 60mm is inclined at 45 degree to the H.P. and the side on which it is resting is inclined at 30 degree to V.P. Draw the projection.
4. A hexagonal pyramid of 30 mm side of base and 45mm length of axis, is resting on one of its triangular faces on H.P. Draw the projection of the pyramid when its edge of base which is in H.P. is inclined at 60 degree to the V.P.