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Projection of Solids

1. A square pyramid side of base 40 mm, axis length 60 mm has one of the side of base in the V.P. The axis of a solid is inclined to the V.P at an angle 30°. Draw its projections.

2. A hexagonal pyramid of 30 mm side of base and slant edges 65 mm long lying on one of its triangular surfaces in the V.P. Draw its projection if apex is nearer to the observer.

3. A cone of base diameter 50 mm and axis 70 mm long is lying on one of its generator on the HP. Draw its projections.

4. A hexagonal pyramid of base edge 30 mm and axis 80 mm long has one of its triangular face 45° to V.P. Draw the projections of the hexagonal pyramid.

5. A right circular cylinder of diameter of base 50 mm and axis height 70 mm has one of the circumference point of base in the H.P. such that its axis is inclined at 30° to the H.P. Draw its projections.

6. A pentagonal prism of 30 mm edge of a base and 65 mm length of an axis is having an edge of base in V.P. Draw the projections of the prism if the rectangular side face containing that edge is inclined at 30° to the V.P.