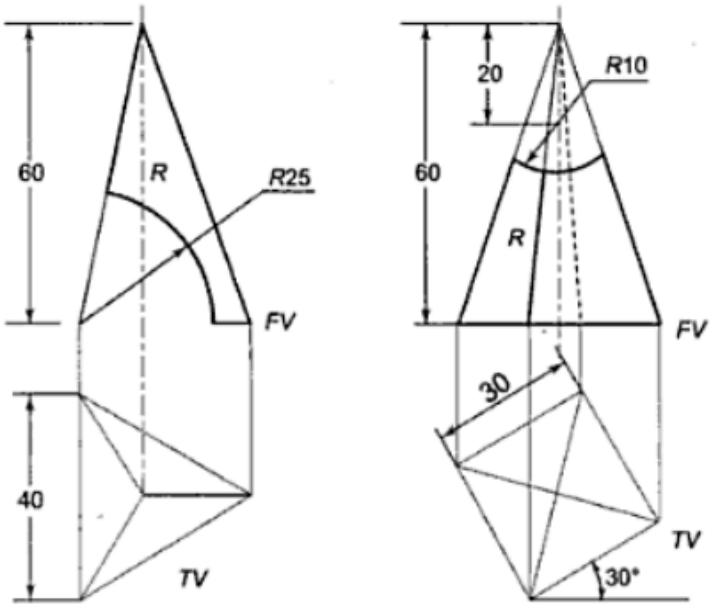
ME119 Engineering Drawing, March 2022
Lab 6

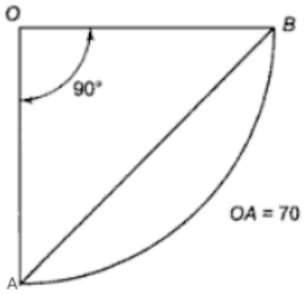
Do not draw dimensioning lines or write dimensions

Q1. A hexagonal pyramid, 20 mm edge of base and axis 65 mm long, is resting on its base with its axis perpendicular to the HP. It is cut by a cutting plane perpendicular to the VP, inclined at 45 degree to the HP and passing through a point on the axis 25mm from the top. The top the pyramid is removed. Draw the front view, sectional top view and development of lateral surface of the truncated pyramid.

Q2. The following figure shows two views of two different pyramids shown with FV and TV cut by different cutting planes. Draw the development of the lateral surface of the remaining portion in each case.



Q3. The following figure shows the development of the lateral surface of a cone. AB = 70 mm
The line AB is shown on the development of the lateral surface. Draw the projections of the cone with base on ground and A is nearest to VP.



Q4. A half cone with 40 mm radius of its base and 90 mm height, has its semi-circular base on HP and its triangular face parallel to and near the VP. A string is wound around the lateral surface of the solid, starting from point P on the base nearest to the observer and returning back to the same point by the shortest path. Show the string in the front view of the solid and the development of the lateral surface of the solid.