

3055 BA SANGAM COLLEGE

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WORKSHEET NO: 20

Subject: basic Technology		Year/Level: 10	
Topic: DEVELOPMENT			Date :11/10/2021
STRAND 5	GEOMETRY	Y	

Learning Outcomes.

- OBJECTIVE: develop skills in geometrical projection of prisms.
- develop skills in geometrical projection of cylinders.

Development of a Cone and a Truncated Cone

The development of a cone is drawn using the **radial lines method**. This is illustrated in the diagrams shown on the right.

- (a) The plan and elevation of the cone is given with the cutting plane put in its proper position.
- (b) The plan of the cone is divided into 12 equal divisions.
- (c) Identify the true length of the sloping edge on the elevation. Note: The cone is a good example of a solid which automatically showing the sloping edge on the elevation as the TRUE

LENGTH.

- (d) Using the true length as radius, draw an arc with O as centre.
- (e) Step off 1/12 of the circumference of the plan on the circumference of the arc drawn in (d).
- (f) The shape formed is the development of the full cone.





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