

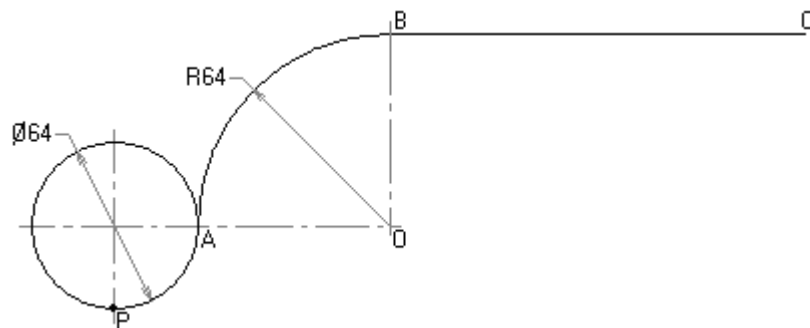
**SENIOR THREE
TECHNICAL DRAWING
2HRS**

INSTRUCTIONS

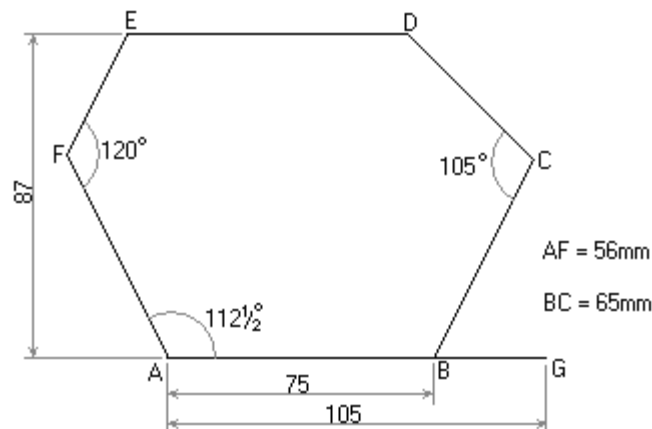
- This paper consists of two sections. Attempt any **four** questions **at least one** from each section
- All questions should be done on the paper provided
- Neatness is **MUST**

SECTION A

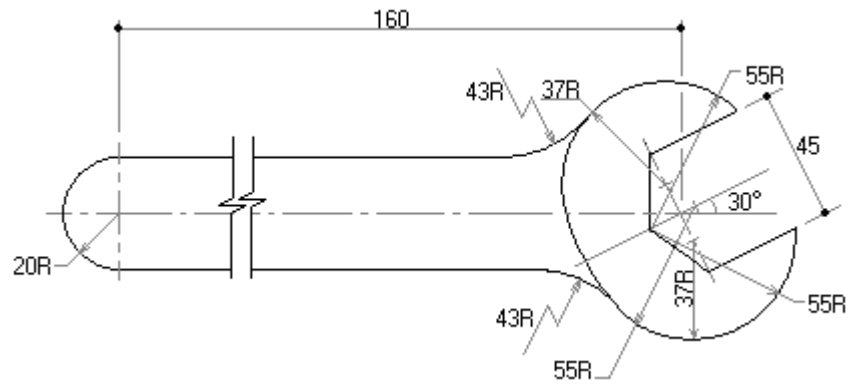
1. The figure below shows a view of a right circular cylinder which rolls along the surface ABC without slipping. Plot the locus of point P on the circumference of the cylinder when the cylinder makes one revolution.



2. Without the use of a protractor, construct the plane figure shown below and transform it into a square of equal area.

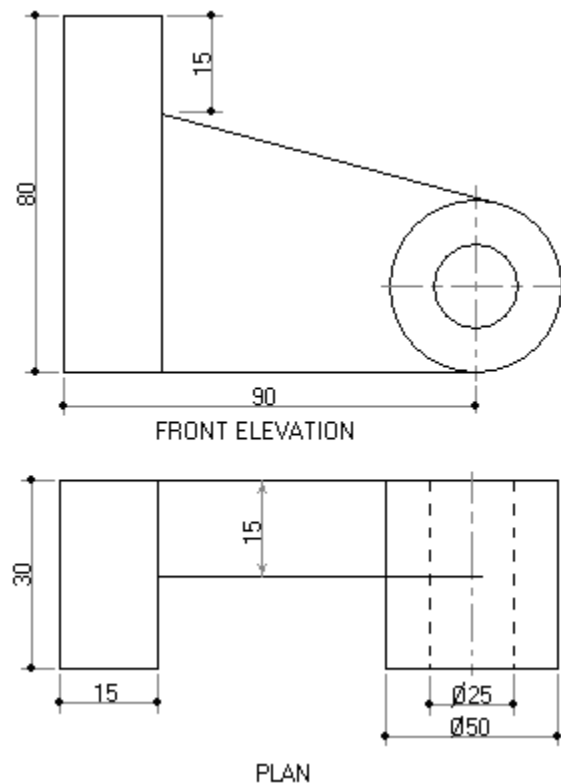


3. Details of a spanner for a hexagonal nut are shown in the figure below. Draw this out line to full size showing clearly all constructions and points of contact.



SECTION B

4. The front and plan views of a bracket are given in the figure below. Draw full size, the isometric projection of the bracket having corner **M** as the lowest point.



5. The figure below shows an elevation of a hexagonal pyramid cut as shown.

Draw the:

- (a) Elevation.
- (b) Complete plan.
- (c) True shape of section X - X.

