

**TECHNICAL DRAWING 735/1**

**SENIOR ONE 2013**

**TERM II**

**1 ½ HOURS**

**INSTRUCTIONS**

Answer **all** questions

1. Given one side 54mm construct the following regular polygons
  - a) Octagon (8 sides)
  - b) Pentagon (5 sides)
  
2.
  - a) construct triangle OPQ given the altitude 56mm, and the two base angles  $60^{\circ}$  and  $45^{\circ}$
  - b) Inscribe a circle in the triangle.
  
3. Triangle ABC has a perimeter of 128mm and the two base angles  $45^{\circ}$  and  $60^{\circ}$ 
  - a) Construct the triangle
  - b) Construct a circumscribing circle to the triangle.
  
4.
  - a) Construct a triangle given its perimeter 130mm and ratio of sides 2:4:3.
  - b) Draw a similar triangle with a perimeter of 100mm.

**END**