

1. Using sketches explain the difference between inscribed and circumscribed polygons. (4 Marks)
2. Draw a well named sketch using AutoCAD software for the following shape and show all the measurements provided  
NOTE SHOW ALL STEPS 10 marks



3. There are six common steps in product development phases: Planning; Concept Development; System-level Design; Detail Design; Testing and Refinement; and Production Ramp Up. (10 marks)
  - i. Discuss why industry needs to employ these six phases in order to conceive, design and commercialize a product
  - ii. Describe four challenges in product
4. You cannot fillet or chamfer the first segment of a polyline with the last segment of the same polyline. True/False? With reference to the answer explain how chamfer and fillet can be done (6 marks)