### **UNIT 6 – EXERCISES**

#### **6.1 Notes**

- 6.1.1 You will be briefed by lecturer in the respective lesson.
- 6.1.2 It depends on how fast you master the drawing skills. You may not be able to finish the respective exercise in the lesson. You are expected to complete the rest of the drawing by making use of FREE ACCESS.
- 6.1.3 Use your own judgement for any dimensions/information not given.
- 6.1.4 In general, there is more than one way to construct the same drawing.
- 6.1.5 All exercises are using A3 template.
- 6.1.6 There are more than 20 exercises in this Unit, including exercises to be done during Class and Test preparation.
- 6.1.7 There are more exercises for practice in BlackBoard to hone your AutoCAD skills.

#### **6.2.1** Some instructions/suggestions

- 6.2.1 Exercise 1 to 5
  - There are many ways of approach to drawing an object. Exercise 1 to 5 provide hints on how to draw using one of the methods.
- 6.2.2 Isometric & Orthographic Ex 1 and 2
  - Some hints are given for Isometric drawings Ex1 and Orthographic drawings for Ex 1 & 2.



## CADD ET0085 – TEST 1 (SAMPLE)

Students are given <u>1 hours 15 minutes</u> to complete the test. It is an open book test where textbook and notes are allowed for reference.

Students will be using notebook and the CADD lecturer will provide the instruction for students during the test.

Students are required to draw to details with **exact dimensions** given in the Test paper.

The students shall set appropriate limits, border, title block, dimensions, text and linetypes.

### **DRAWING SETTINGS:**

**Paper Limits** = A3

**Border size** = 10mm from edge of paper

**Title block** = dimensions as shown in drawing

**Text Font** shall be **Times New Roman**, **Text height** = 10mm for large font

7mm for small font

**Linetype Scale** for centre lines (LTS) = 0.5

Overall Dimension Scale = 1.0

**Baseline spacing** = 15mm

**Offset from origin** = 2mm

Arrow size = 5

Text height = 5

All **dimensions** shall be drawn with colour 'Cyan'.

Centre line shall be drawn with colour 'Red'.

**Hidden line** shall be drawn with colour 'Green'.

Students shall save the drawing under a File Name: p1234567 test 1, where the numbers represent the student's admission number.

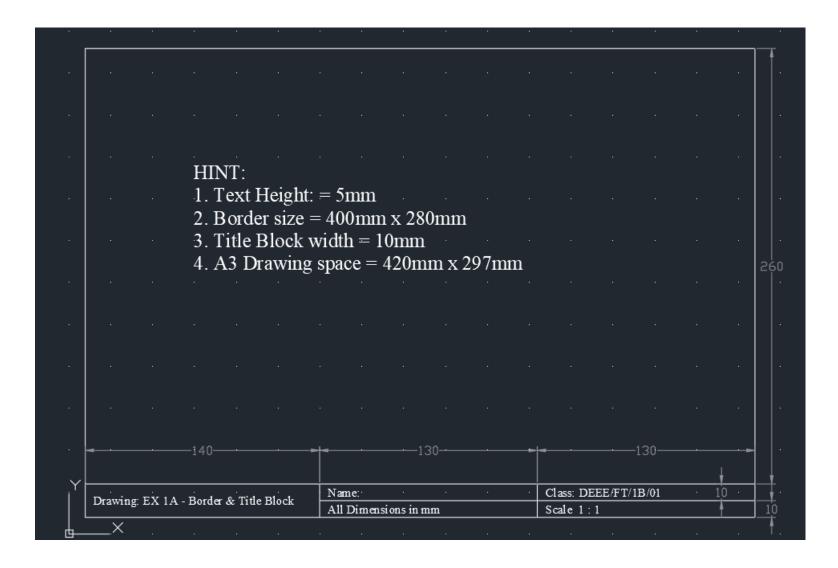
Inform the lecturer once you have completed the test and **return the test paper to the lecturer.** 

Appropriate actions shall be taken against any students attempting to cheat, or caught cheating during the test, and will be severely dealt with subsequently.



# EX 1 (INTRODUCTION - HAVE FUN DRAWING DING-DONG) Line Mirror Circle Erase Line Line Circle Redraw Arc Can You draw other cartoon characters? Examples: Goofy, Mickey or Minnie, Donut Flintstone, Donald Duck, Bugs Bunny, etc. Drawing:EX 1-Ding Dong Name: Tan Ah Kow (P1234567) Class: DEEE/FT/1B/01 Scale = NTS

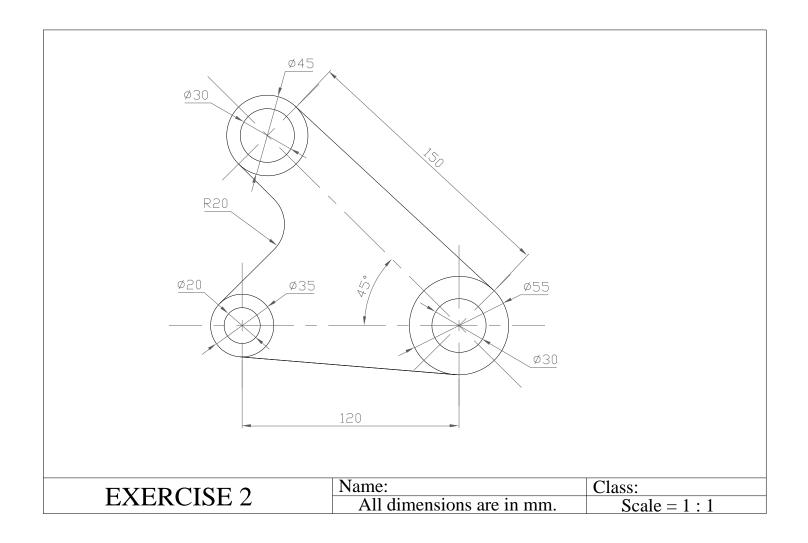




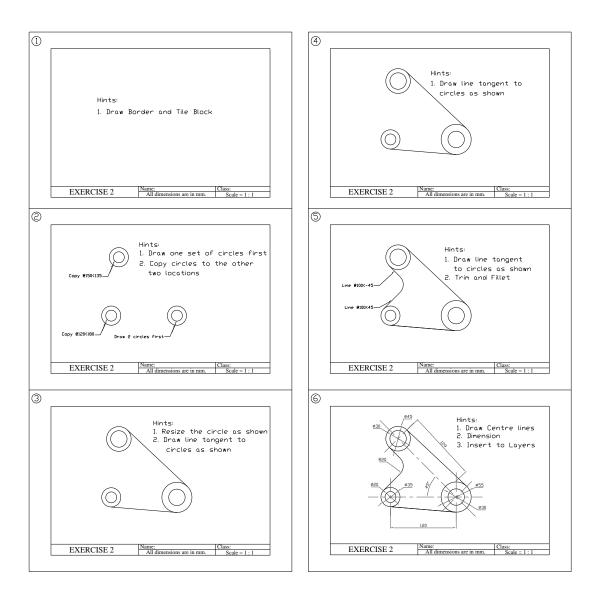


1		4
	HINT:  1.Draw a Border size of 400mm x 280mm on a A3 size paper space of 420mm x 297mm 2. Ensure Border is centred on the A3 paper space	HINT: 1. Trim off the offset lines to form the Title Block
2		[S
	HINT:  1. Explode the Border  2. Offset 10mm from the bottom horizontal line	HINT:  1. Fill up Text with Height: = 5mm 2. Use dynamic Text to input text = dt 3. Specify Justify and select option Middle Left = ml 4. Use mouse to move cursor and specify ml point of text 5. Type the text
		Drawing: EX 1A - Border & Title Block Name: Class: DEEE/FT/1B/01 All Dimensions in mm Scale 1:1
3	HINT:  1. Offset 130mm from the vertical line on the right	HINT:  1. Dimension scale= 2 2. Format Dimension style = Text Alignment: horizontal, Text placement: centre
		130 130
		Drawing: EX 1A - Border & Title Block Name: Class: DEEE/FT/1B/01 10 7 All Dimensions in mm Scale 1: 1 10

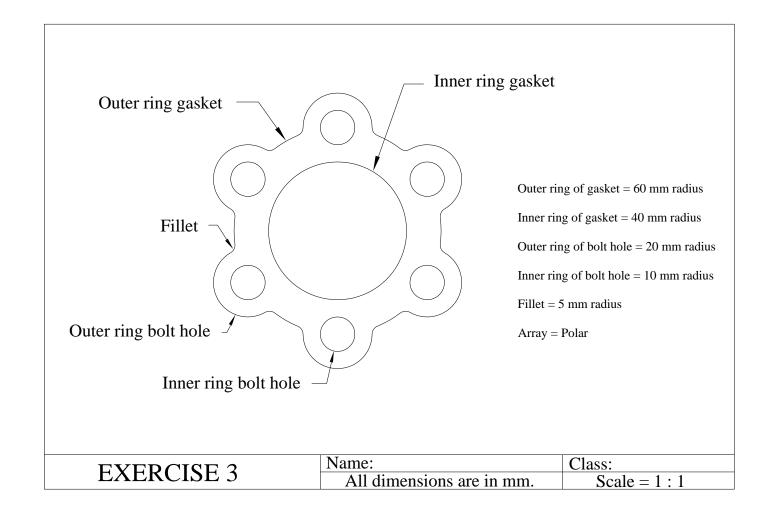




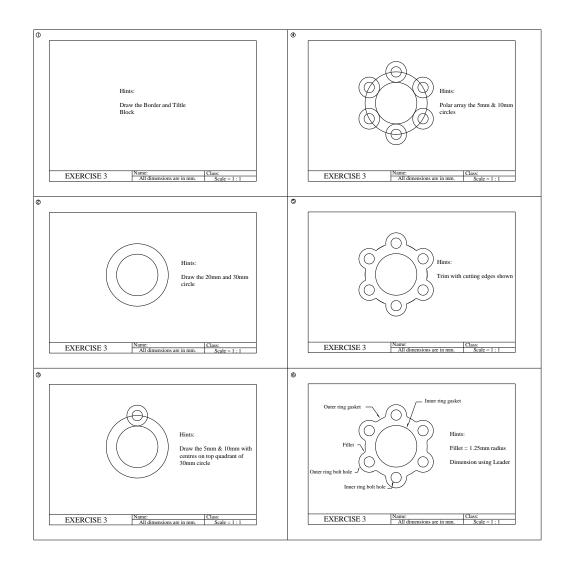




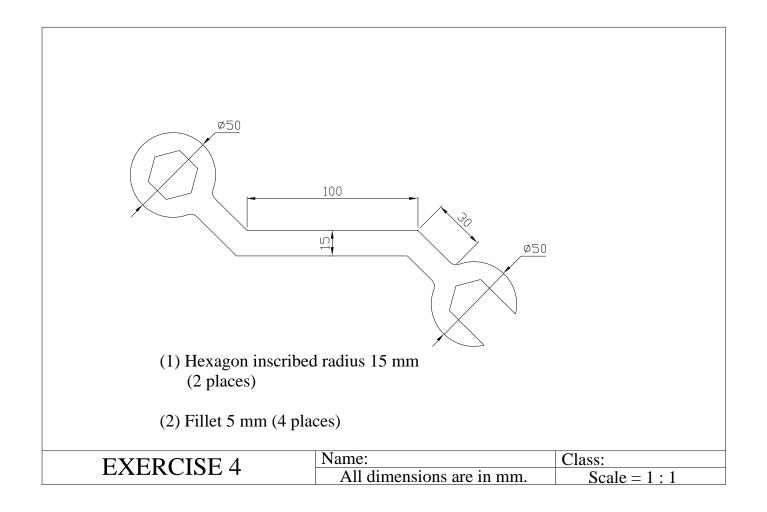




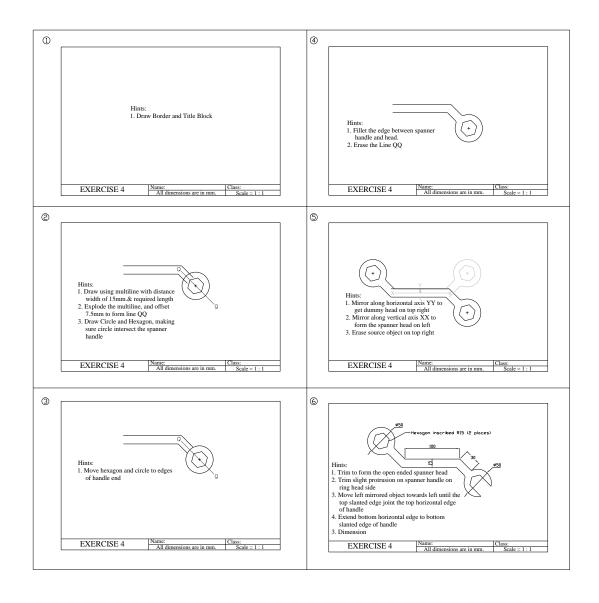




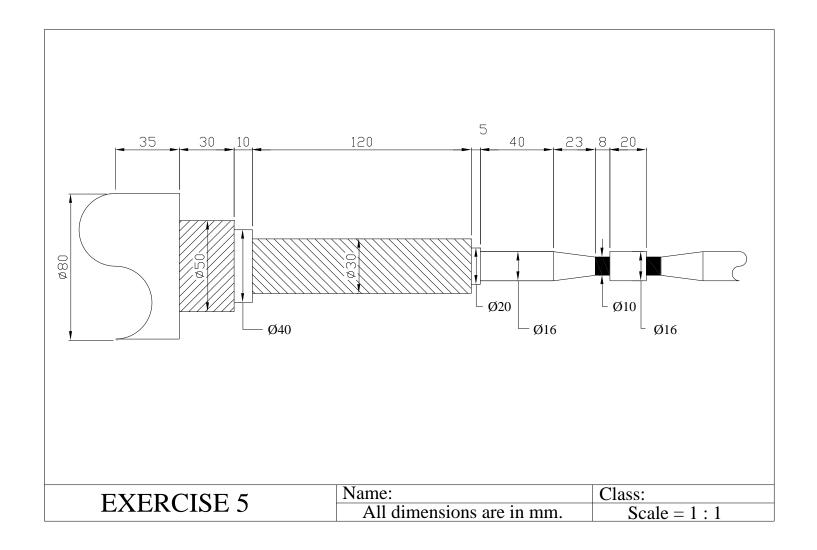




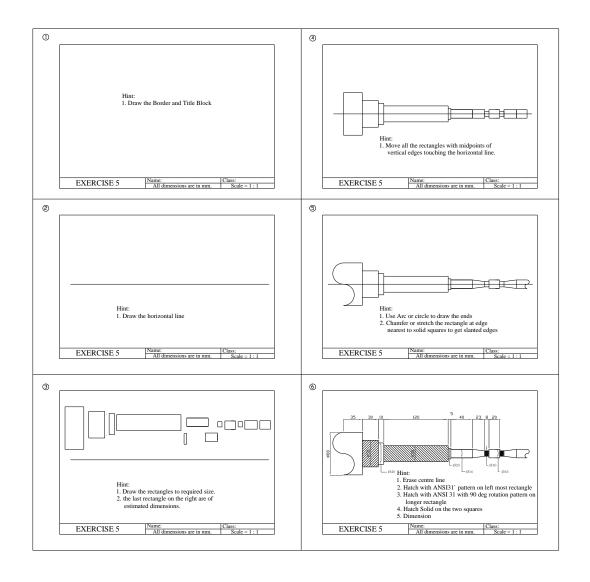




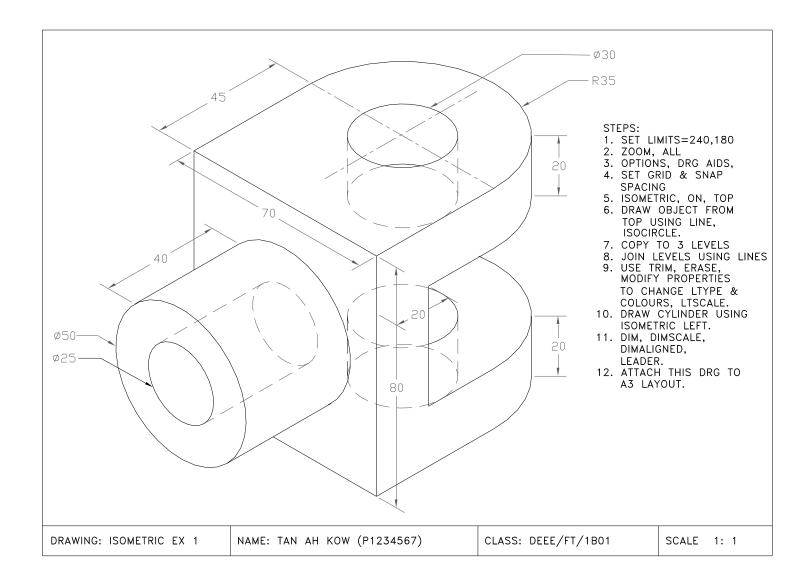




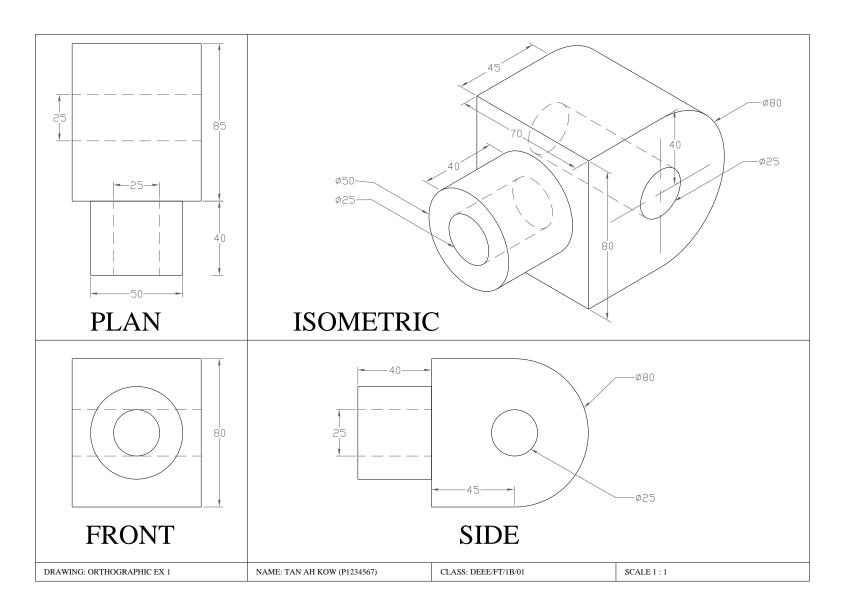




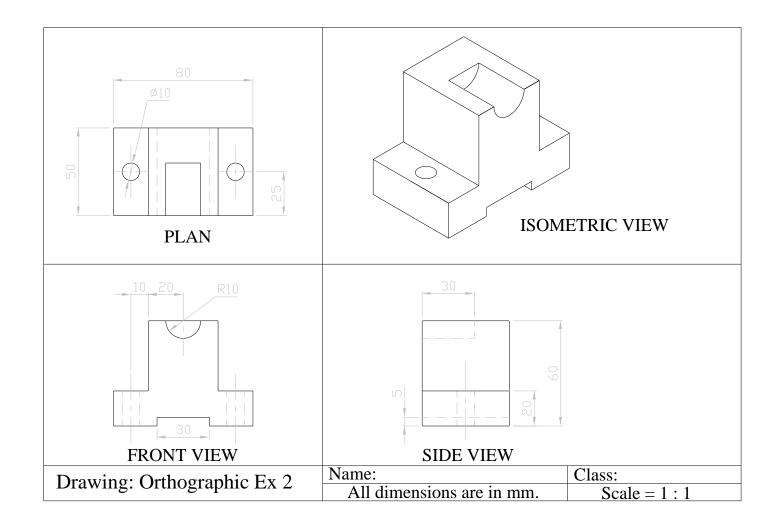




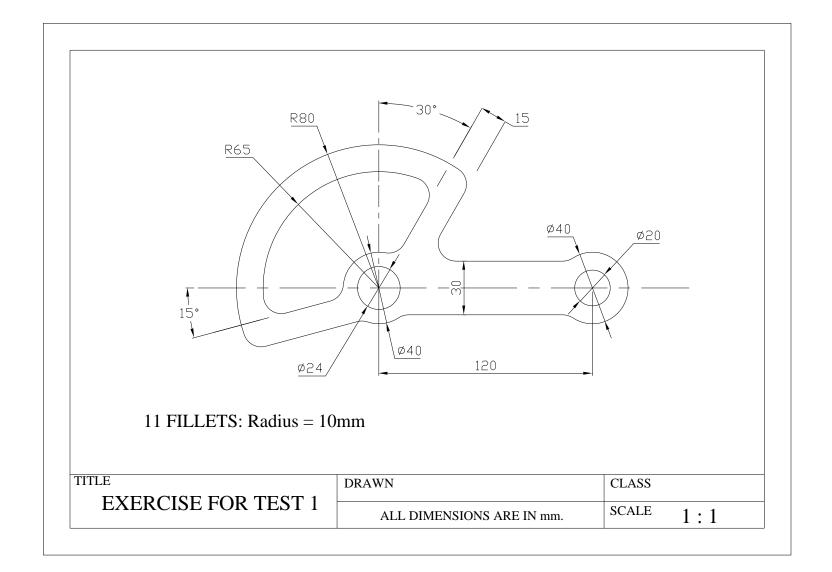




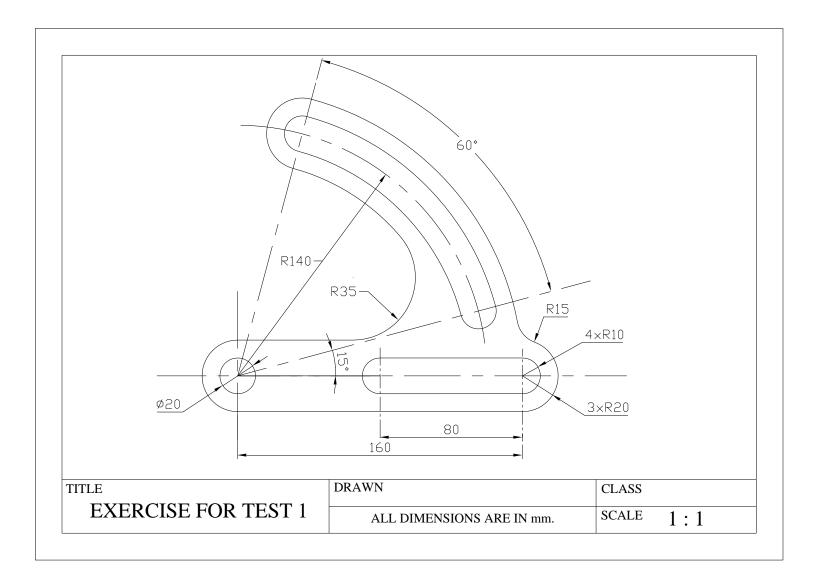




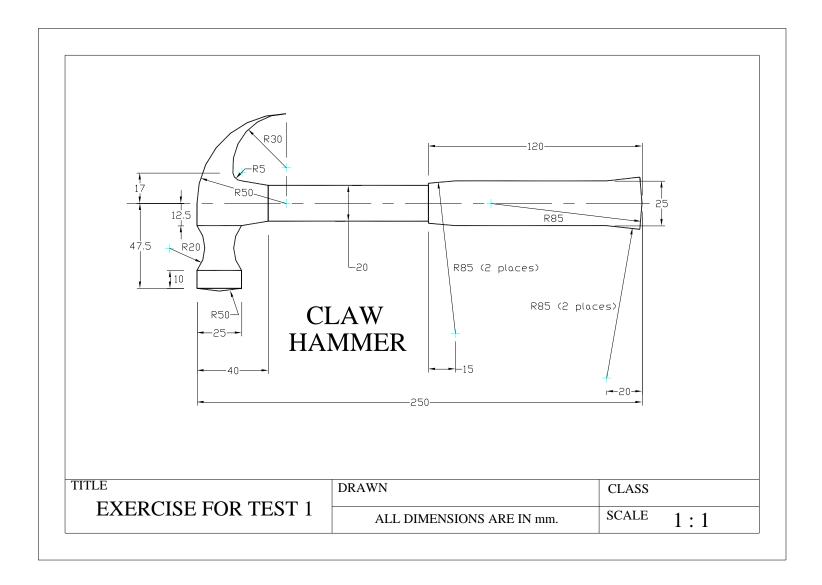




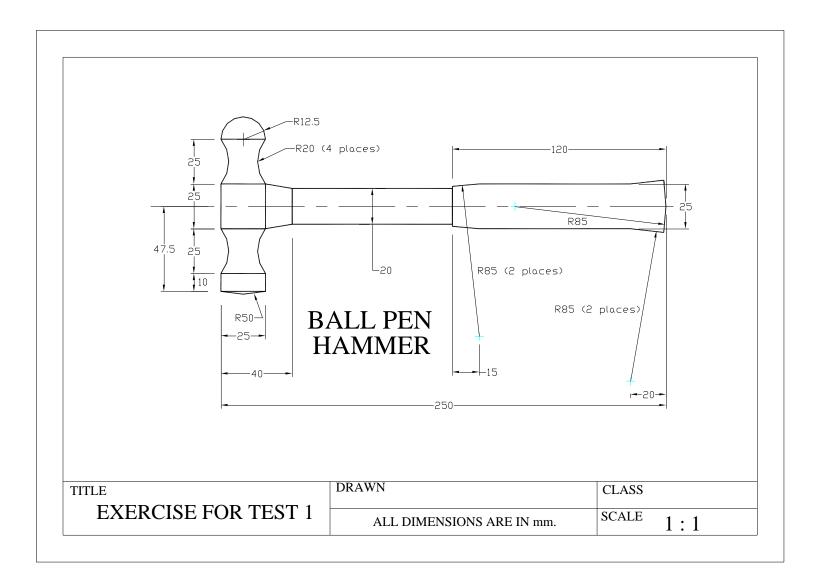




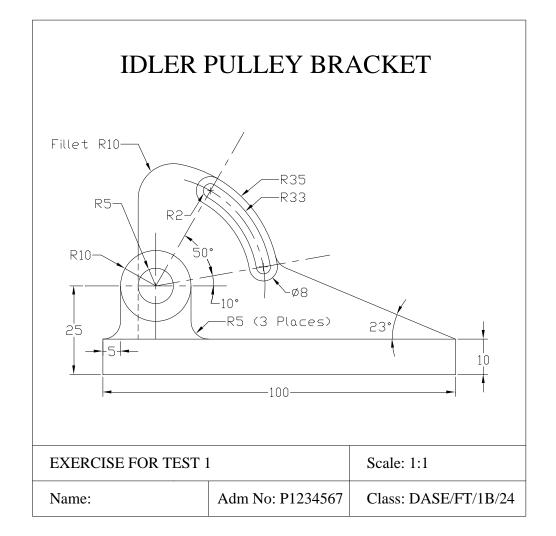




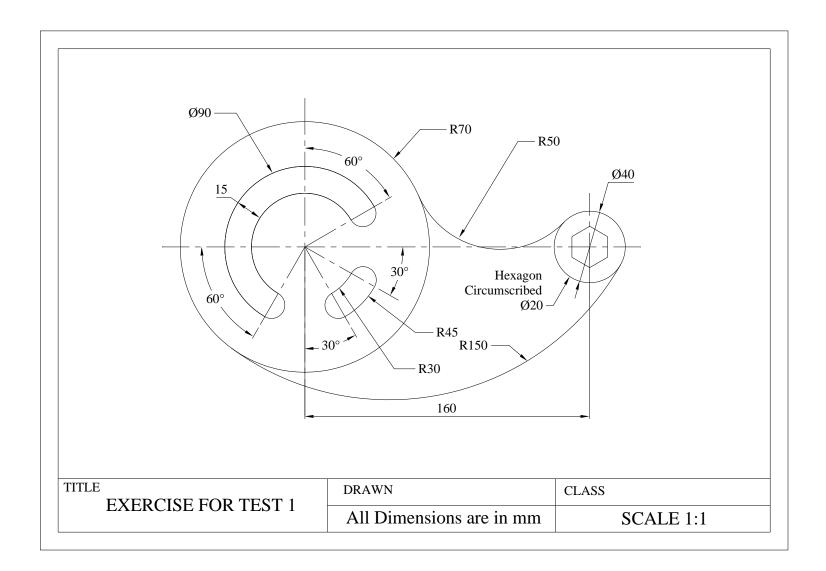




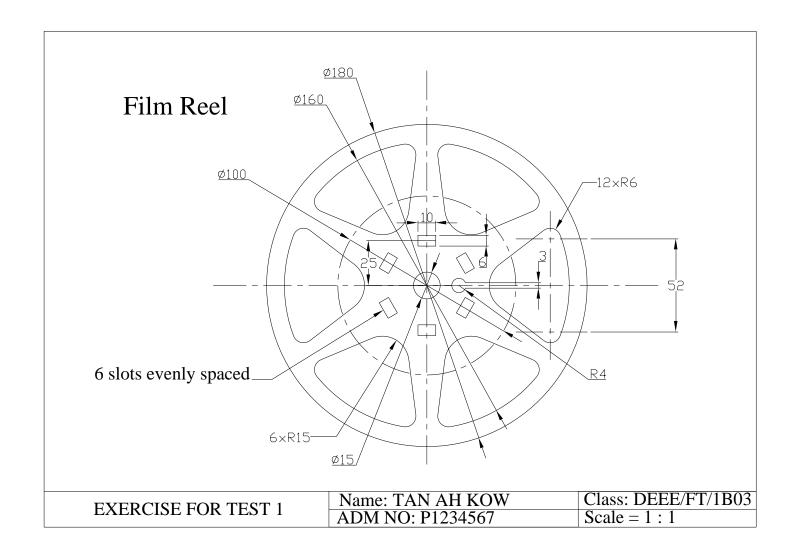




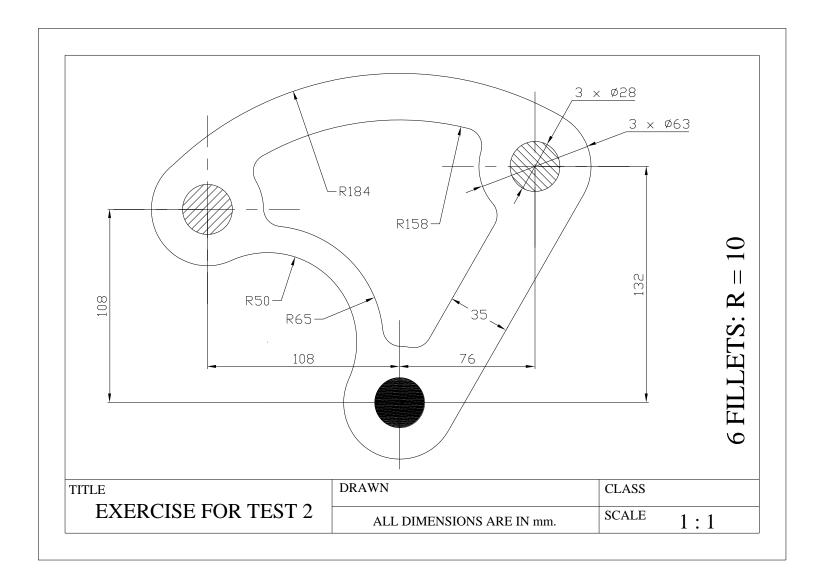




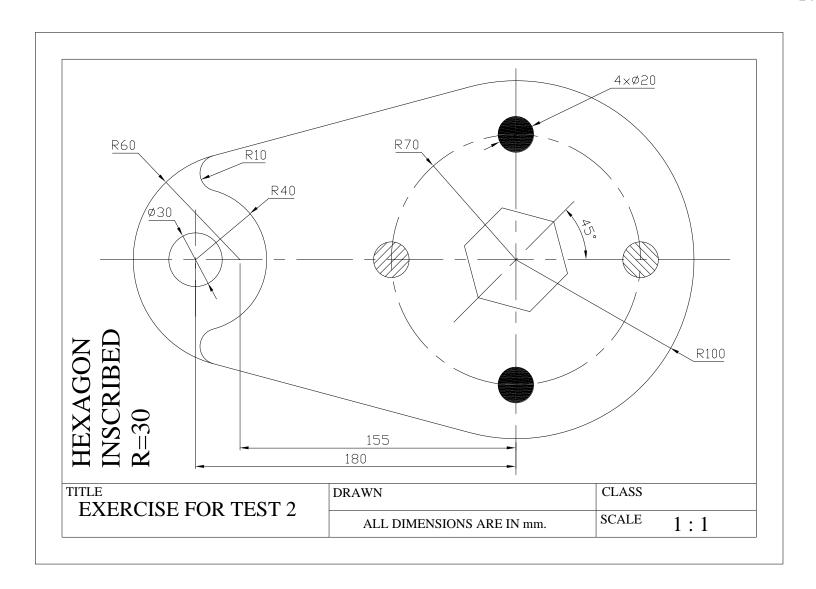




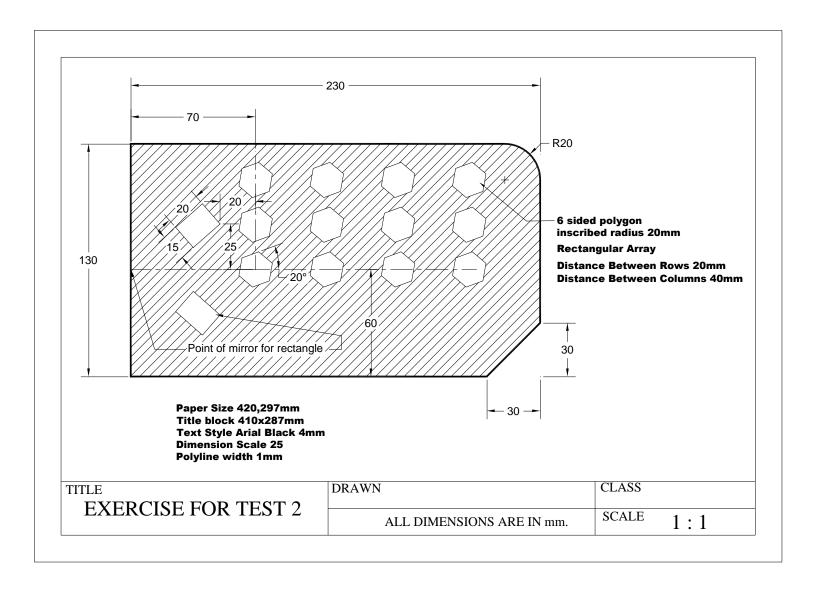




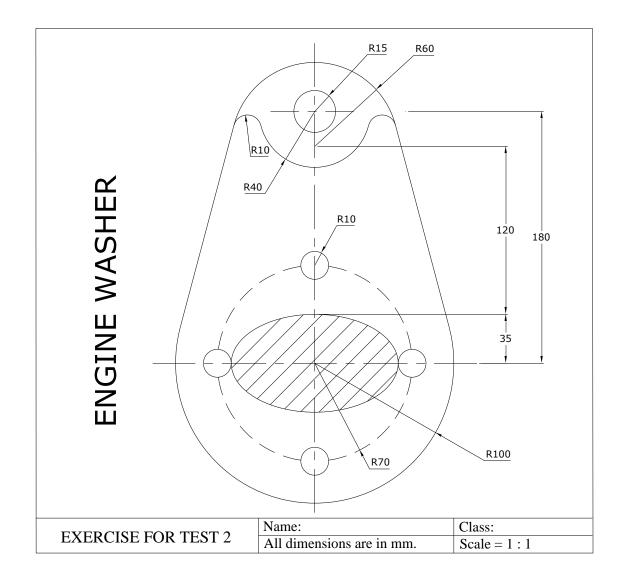




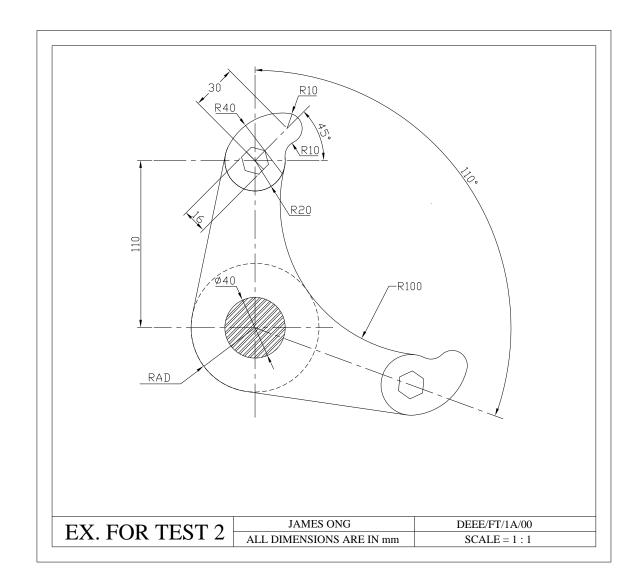




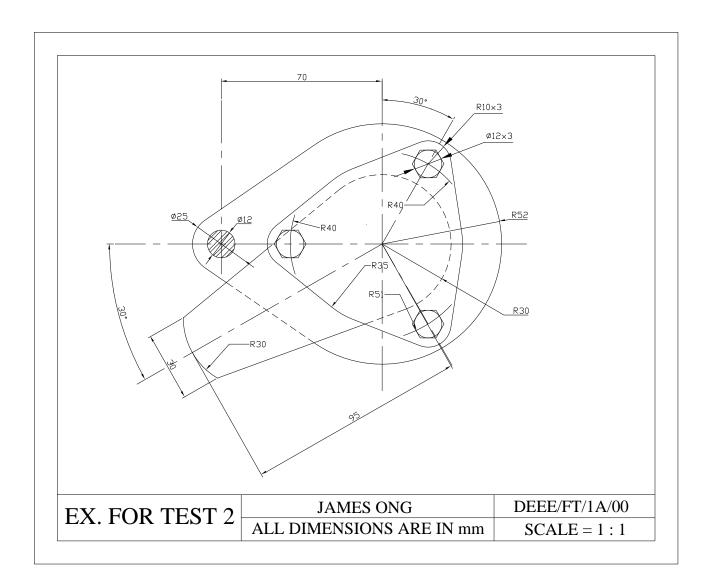




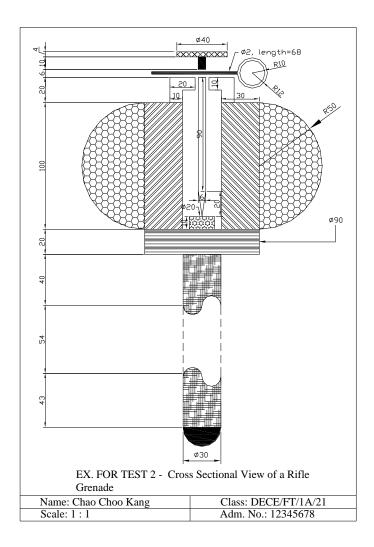




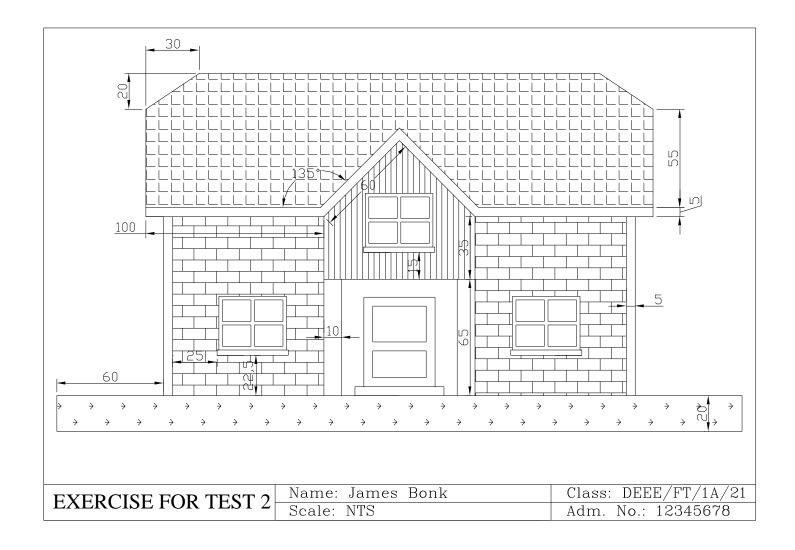




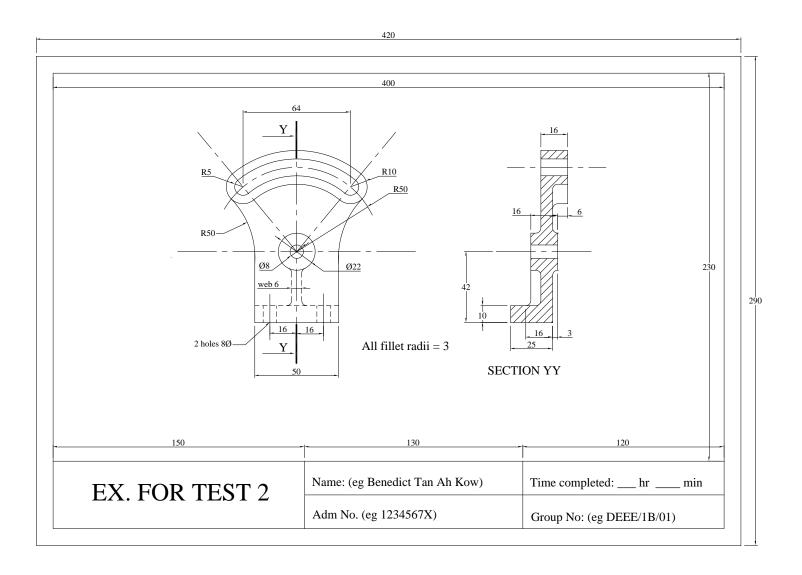




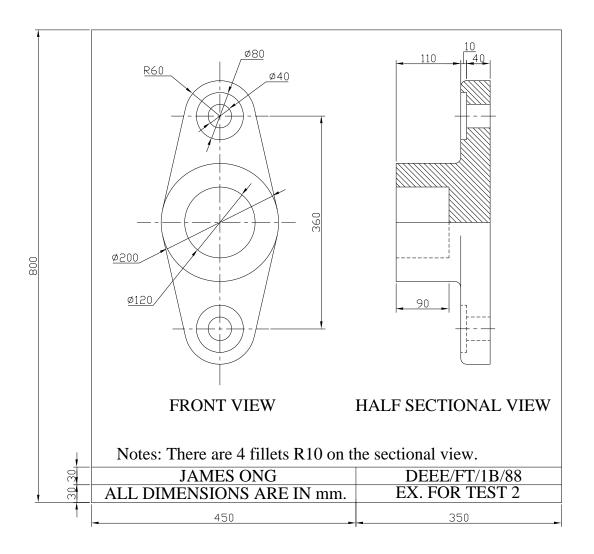














Rectangle -- x -- @200,150 Trim - ent, ent (all) Explode - touch the rectangle & click (select) Format - Linetype - Load - Hidden Offset - 120 Select - Right click - Properties - 75 Ltscale = 0.5Line -- x -- @100<45 Rec -- x -- @95,50 PLAN 15 95 FRONT VIEW SIDE VIEW ISOMETRIC VIEW TITLE DRAWN CLASS **EXERCISE 6** SCALE ALL DIMENSIONS ARE IN mm. 1:1



