Name: _____ Student ID _____

Prince of Songkla University
Faculty of Engineering

Final Exam, Semester II
Date: February 24, 2007
Subject: 230-381 –Drawing
(Chemical Engineering Drawing)

Academic Year: 2006 – 2007
Time: 9:00 – 12:00 AM
Room: R201

ทุจริตในการสอบโทษขั้นต่ำคือ ปรับตกในรายวิชาที่ทุจริต และพักการเรียน 1 ภาคการศึกษา

Instructions: There are a total of 3 parts 3 pages not including the cover sheet. Place your name and the student ID number on every page. Students are allowed to use a pen or pencil, notes from class, and an English-Thai dictionary. You have ONE HOUR to complete the exam. No exams are allowed to leave the room.

Points Distribution (For Grader Only)		
Part	**Points Value**	**Score**
I	20	
II	40	
III	40	
Total	100	

Exam prepared by
Ram Yamsaengsung
February 17, 2007

PLEASE CHECK TO MAKE SURE THAT
YOU HAVE ALL 3 PAGES OF THE EXAM BEFORE BEGINNING
(not including the cover sheet).
GOOD LUCK!

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Part I. Short Answers (20 points)

1. What is CAD? What are the advantages of using CAD? **(4 points)**

2. In the 2-D Drawing, name 8 types of lines or shapes that can be drawn. **(4 points)**

3. Name 6 types of solids that can be drawn using AutoCad. **(3 points)**

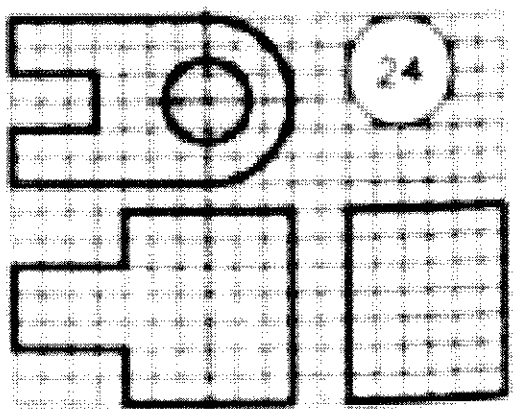
4. If you want to draw a circle with a diameter of 0.5 mm that is tangent to a line and a circle, what command do you need to use? Explain how to draw it. **(5 points)**

5. What are the 2 ways that a Polygon that can be drawn? **(2 points)**

6. What is the difference between a Fillet and a Chamfer? Under which menu is it located in AUTOCAD? **(2 points)**

II. Two-Dimensional Drawing (40 points)

1. Fill in the missing hidden line in the figure below. **(5 points)**

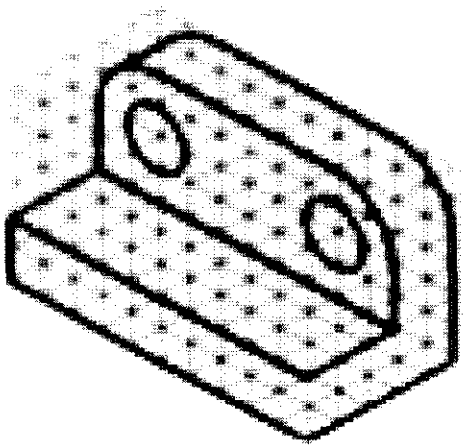


2. Sketch by hand the isometric view of figure above. **(15 points)**

3. Explain step-by-step how you can draw the **Top View** of the figure above using AutoCad. **(20 points)**

III. Three-Dimensional Modeling (40 points)

1. Explain step by step how to draw the figure below using AutoCad. Make sure to include all commands and modification techniques. (**40 points**)



Congratulations and Have a Good Summer!!!