

DUE DATE _____

NAME _____

ENGR/DRAFT 105 Assignment #15
AutoCAD: Geometric Construction Basics – Chapter 2

Copy your drawing A1.dwg to the other FILENAME (see below), and then complete this assignment.

- Do the Lesson 2 Tutorial (The Guide Plate) and print out a hard copy (the name of the file must use the file-naming convention: "FILENAME".dwg, where the "FILENAME" consists of the following:
 - First initial
 - Second initial
 - _ (underscore)
 - L2 (for Lesson 2)
 - _ (underscore)
 - Semester (for example, F04, for the Fall 2004 semester)

Since my initials are NA (for Nick Arnold), and if this is the Fall 2004 semester, the FILENAME for the Lesson 2 Tutorial would be:

NA_L2_F04.dwg

Note that the FILENAME is in all upper-case letters, and the file extension .dwg (so the computer recognizes the file is an AutoCAD file) is in lower-case letters.

- Hard copy of Chapter 2, Exercise 1 (my file would be named NA_E2_1_F04.dwg)
- Hard copy of Chapter 2, Exercise 2 (my file would be named NA_E2_2_F04.dwg)

Be sure to include the following (in the title block section) on each AutoCAD drawing:

DRAWING TITLE (e.g., GUIDE PLATE)

NAME (YOUR NAME)

FILENAME.dwg (e.g., NA_L2_F04.dwg)

Date (e.g., 10/23/04)

Scale (e.g., 1:1)

Staple this sheet to the front of your drawings in the correct order. Write your name at the top of the page.

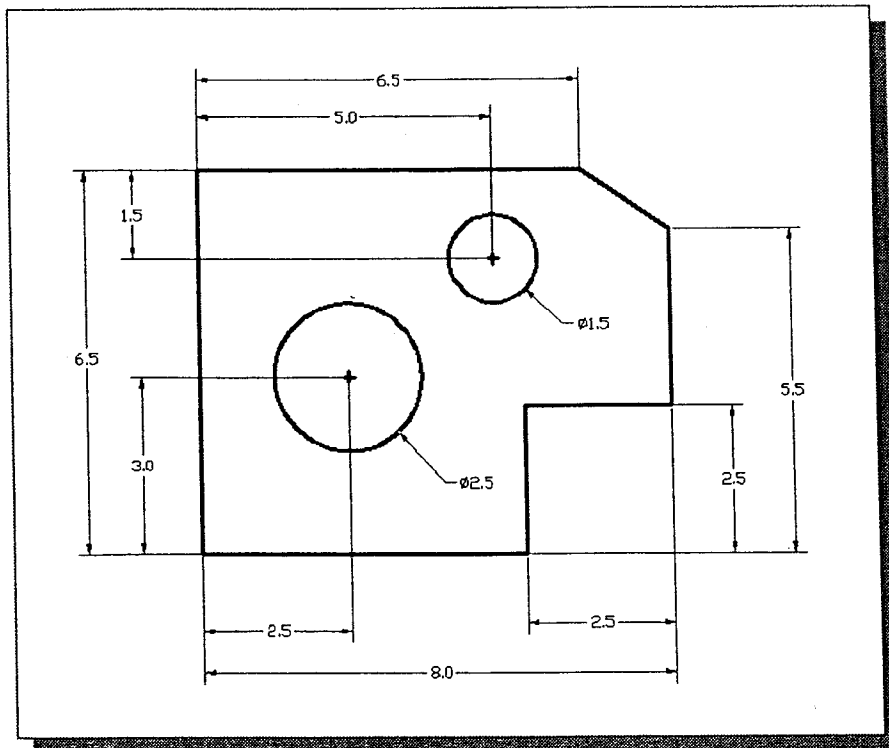
Defining Positions

In AutoCAD, there are five methods for specifying the locations of points when we create planar geometric entities.

- **Interactive method:** Use the cursor to select on the screen.
- **Absolute coordinates (Format: X,Y):** Type the X and Y coordinates to locate the point on the current coordinate system relative to the origin.
- **Relative rectangular coordinates (Format: @X,Y):** Type the X and Y coordinates relative to the last point.
- **Relative polar coordinates (Format: @Distance<angle):** Type a distance and angle relative to the last point.
- **Direct Distance entry technique:** Specify a second point by first moving the cursor to indicate direction and then entering a distance.

The Guide Plate

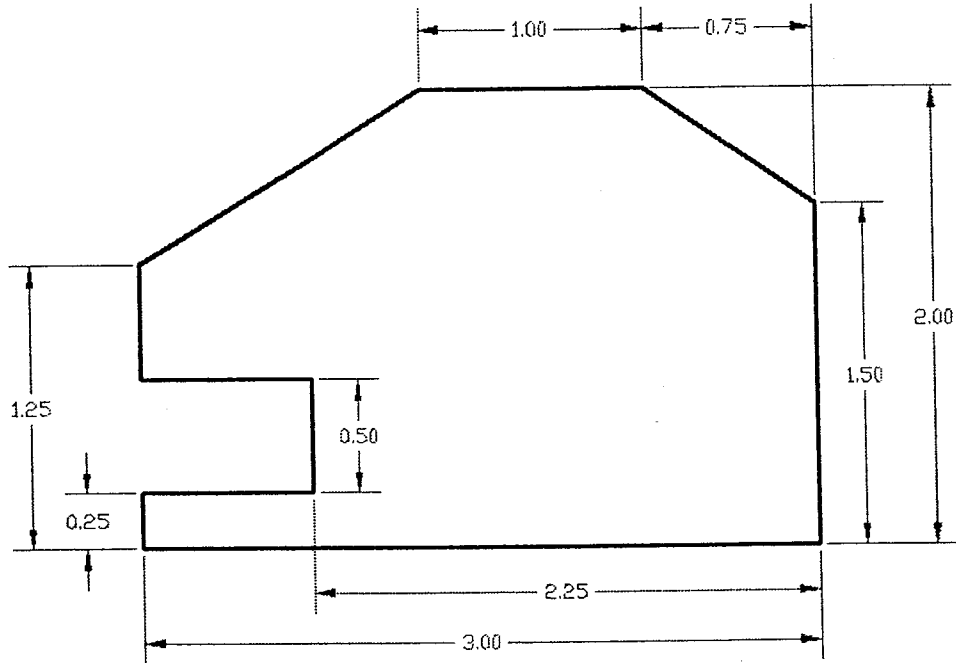
We will next create a mechanical design using the different coordinate entry methods.



- Use the *Erase* command and erase all entities on the screen before proceeding to the next section.

Exercises: (All dimensions are in inches.)

1.



2.

