

## **Inventor Assignment #3**

### **Reading Assignment:**

Read Chapter 8 in Parametric Modeling with Autodesk Inventor 2008, by Randy Shih

### **Computer Assignment:**

- 1) Create a solid model (a part) of the object shown in Problem 2, Sheet A-2, page D-23, in Engineering Graphics Text and Workbook, Series 1.2, by Craig & Craig.
  - Use the scale 1 square = ¼”.
  - Add sufficient dimensions to clearly define the part.
- 2) Create a 4-view layout (top, front, right, and isometric) drawing file according to the following specifications:
  - Use an A-size (portrait) sheet.
  - Retrieve dimensions from the part into the drawing file. Adjust the dimensions as necessary for a neat appearance.
  - In general, use good dimensioning style (see below)
  - Add centerlines.
  - Add labels for each view (Top, Front, Right Side, and Isometric).
  - Arrange the views such that they are approximately centered within the drawing area.
  - Add text to the title page boxes (use whatever boxes you wish) with the following information:  
Your name  
EGR 110 – Engineering Graphics  
Date  
Full scale  
Inventor Assignment #3  
Problem 2, Sheet A-2, page D-23, in Engineering Graphics Text and Workbook, Series 1.2, by Craig & Craig.
  - Print the drawing.

### **Dimensioning style**

Good style in dimensioning will be covered in detail a little later in the course, but for now a few useful rules are presented below:

- Keep dimensions aligned as much as possible
- Neatly space the dimensions
- Avoid inside dimensions
- Avoid driven (redundant) dimensions
- Center the dimension text within the extension lines
- Specify diameter (using  $\phi$ ) for holes and radius (using R) for arcs
- Label views (neatly centered under each view)
- Always include the scale for the drawing
- Use centerlines where appropriate