CHAPTER 39 EXERCISES

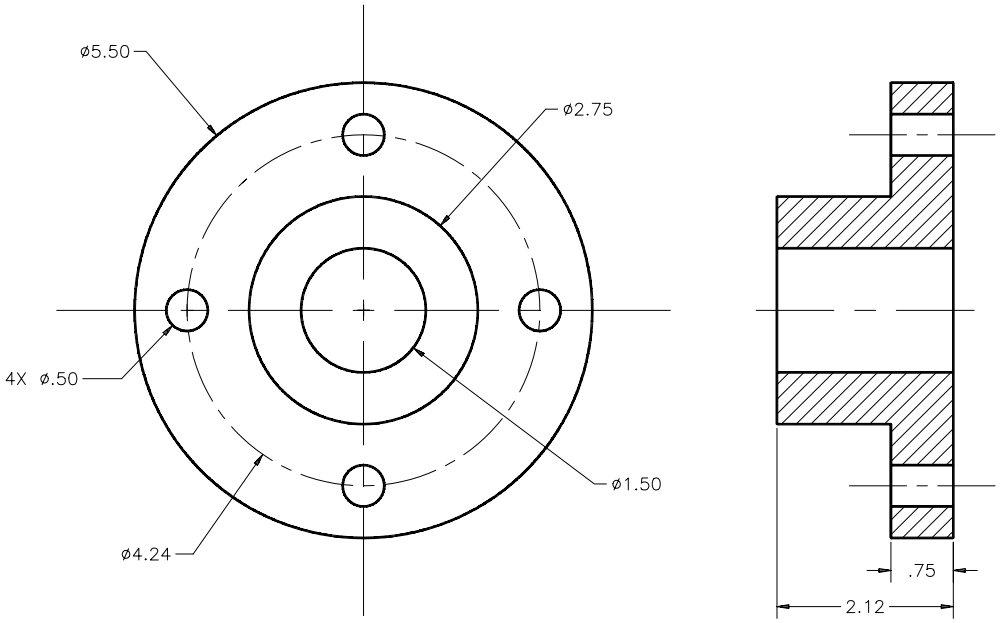
1. ***Massprop***

Open the **CH38EX1-M** drawing created in Chapter 38. Calculate the ***Mass Properties*** for the model. Write the report out to a file named **CH39EX1-M.MPR**. Use the Windows Notepad to examine the file.

2. ***Slice***

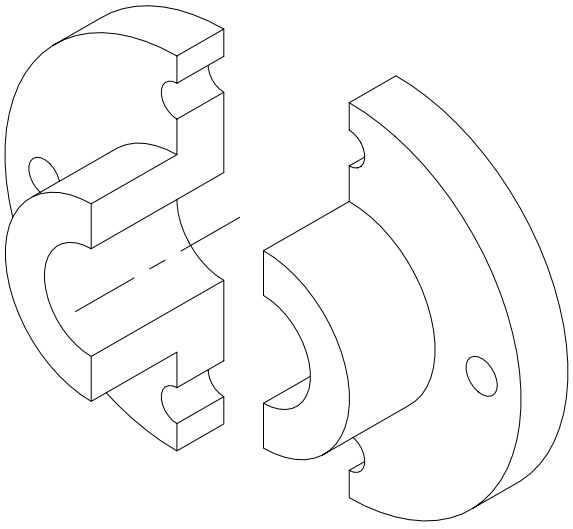
Use the ***Revolve*** command to complete the drawing of the Bearing in Figure ME39-1.

Figure ME39-1



Use ***Slice*** to cut the model in half. Use an appropriate method to establish the slicing plane in order to achieve the resulting model as shown in Figure ME39-2. ***Save*** the drawing as **CH39EX2-M.**

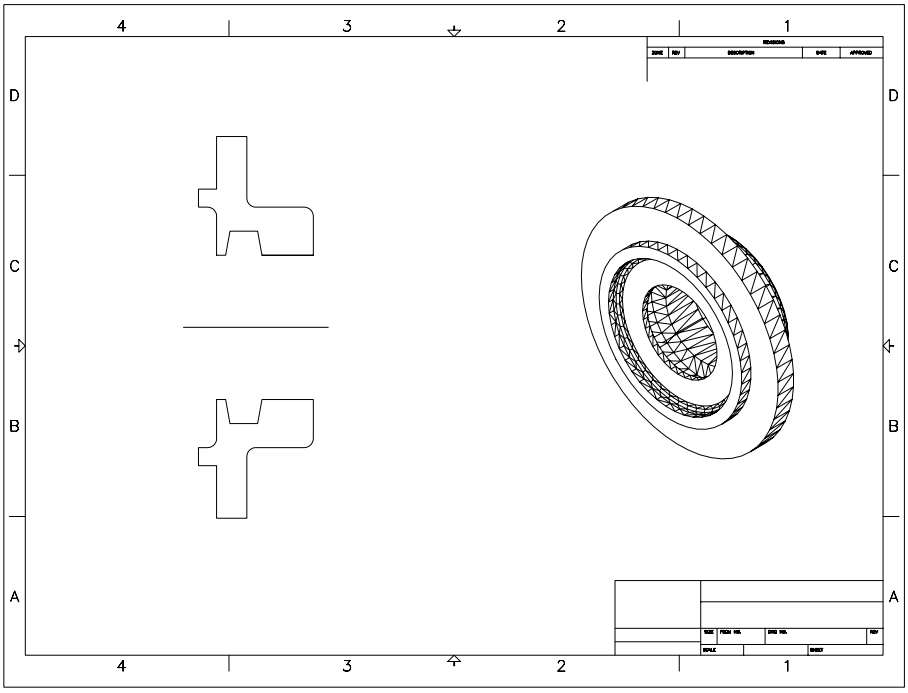
Figure ME39-2



3. Fixed Bearing Cup

Examine the fixed bearing cup from Chapter 29 Exercise 4. Create a solid model of the fixed bearing cup using the dimensions shown in Figure ME29-4**.** Use the ***Section*** command to create a 2D cross section. Finish the exercise by activating a layout and creating two ***Viewports***—one displaying the section and one displaying the solid. Finally, add a title block. Your drawing should look similar to Figure ME39-3. ***Save*** the drawing as **CH39EX3-M.**

Figure ME39-3



4. Caster Assembly

Open the caster assembly model from Chapter 38 Exercise 2. Change the ***ISOLINES*** setting to display **20** tessellation lines. Next, change ***FACETRES*** to **10** and make a plot of the model with ***Hide Objects*** checked and ***DISPSILH*** set to **0** to display the fine mesh. Your drawing should look similar to Figure ME39-4. ***SaveAs*** **CH39EX4-M.**

Figure ME39-4