CHAPTER 17 EXERCISES

1. Lever

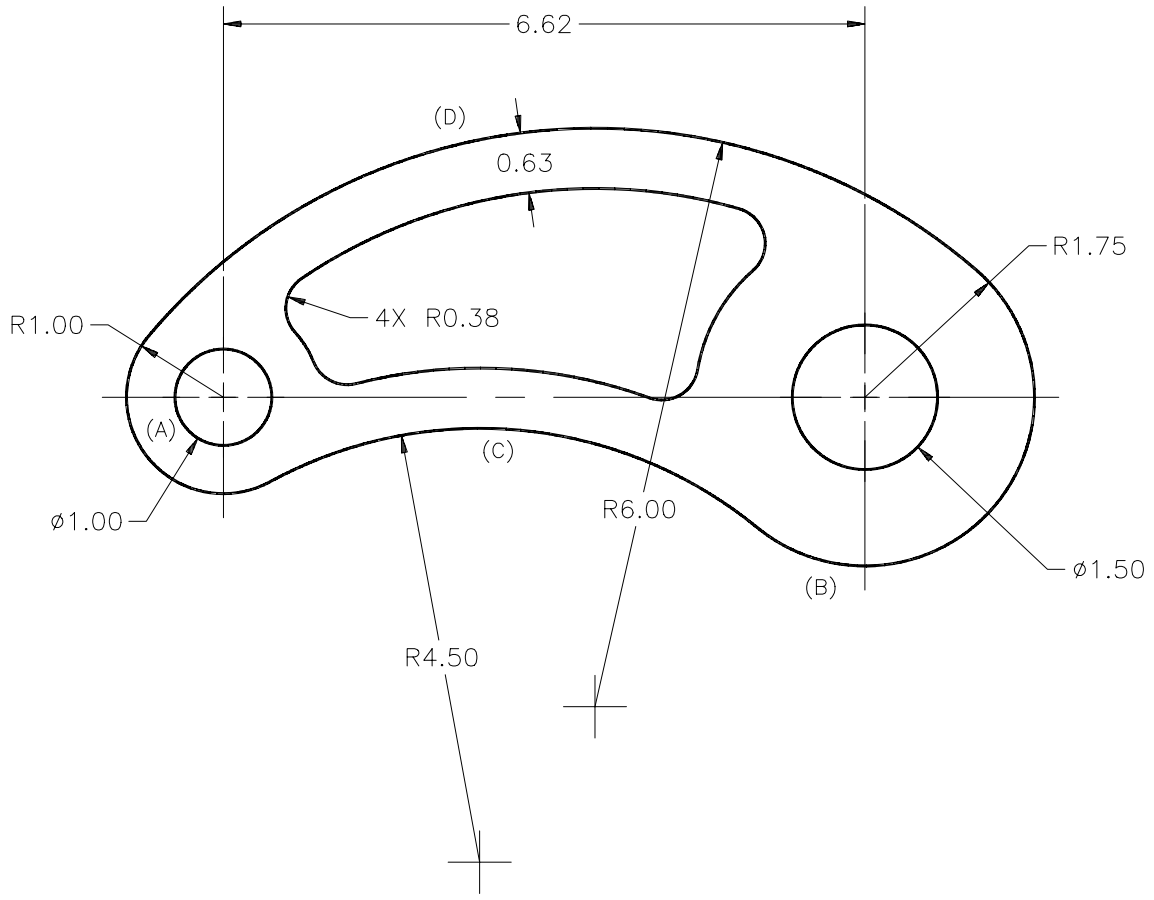
Complete the lever drawing in Figure ME17-1. Begin the drawing by locating the center of the 1.00 diameter ***Circle*** at absolute coordinates of 2.25, 4.00. Use the ***Dist, Id,*** and ***Properties*** commands to answer the following questions. ***Save*** the drawing as **CH17EX1-M.**

A. What is the ***Distance*** from the center of the 1.00 diameter circle "A" to the intersection of the circle and the vertical center line at "B"?

B. What is the absolute coordinate value of the center of the 4.50 radius (arc "C")?

C. What is the total length of arc "C"?

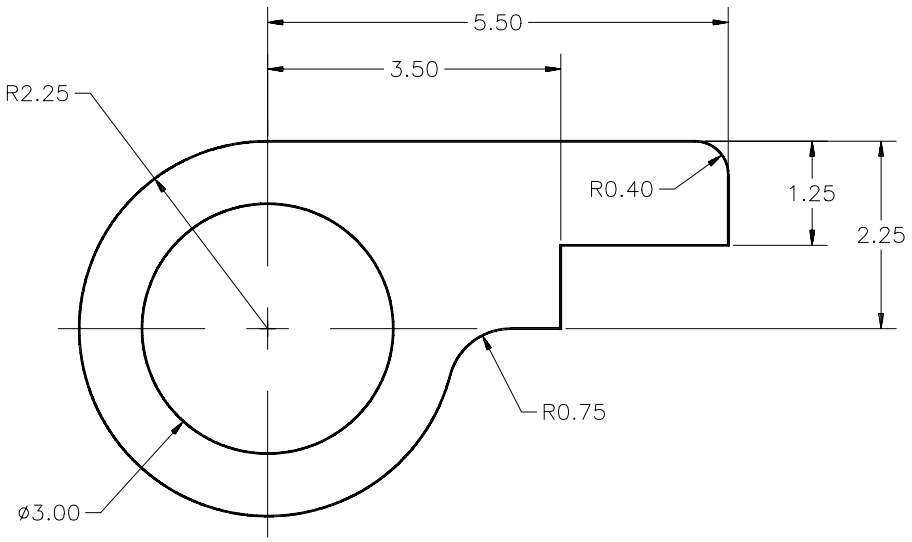
Figure ME17-1



2. Shaft Set

Draw the shaft set shown in Figure ME17-2. Find the total ***Area*** with the 3.00 diameter *Circle* removed. ***Save*** the drawing as **CH17EX2-M.**

Figure ME17-2



3. *Dblist*

Open **CH17EX1-M** from exercise 1. Use ***Dblist*** to obtain a listing of all entities in the drawing. Select ***Edit*** from the AutoCAD Text Window, then select ***Copy History***. Open the Windows **Notepad** and select ***Paste*** from the ***Edit*** menu. The ***Dblist*** from the current drawing can now be saved as a text file or printed.

4. *Time*

Using the ***Time*** command, what is the total amount of editing time you spent with the **CH17EX1-M** drawing? How much time have you spent in this session? How much time until the next automatic save?

Chapter 17 Answers

1. Lever

A. Distance = 6.8474
B. Absolute Coordinate Value, Delta X = 6.6200, Delta Y = -1.7500
C. Total Arc Length is 5.3595

2. Shaft Set

Total Area = 15.2793