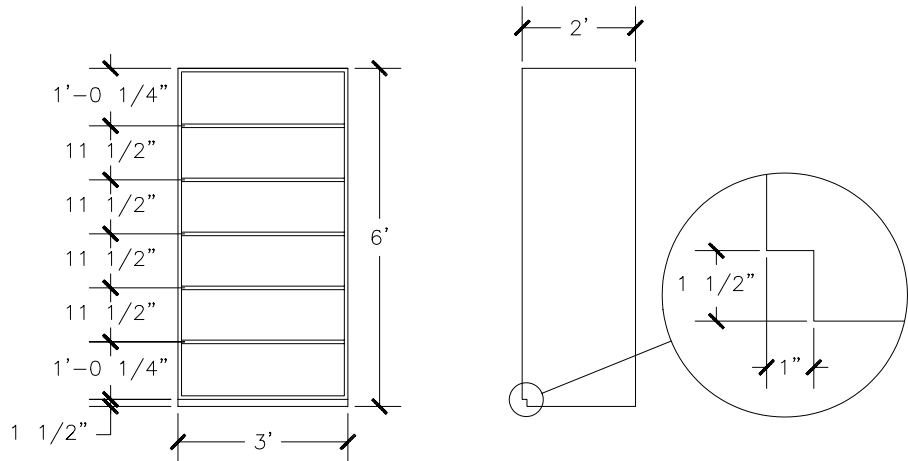## CHAPTER 38 EXERCISES

Construct solid models from the drawings shown and described below.
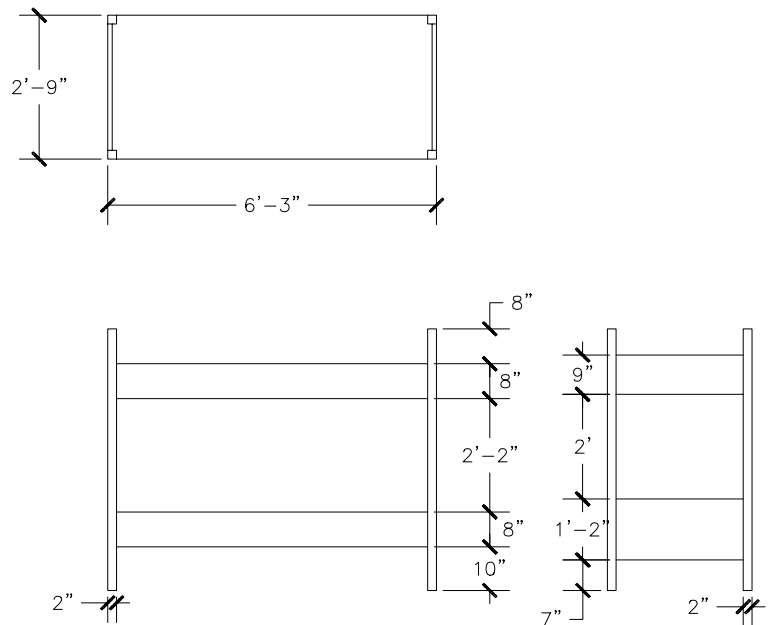
1.  Construct a solid model of the book-case shown in Figure AR38-1.  The thickness of the lumber is 3/4 ".  The kickplate (on the bottom front) is 1-1/2″ x 1″.  *Save* as **BOOKCASE**.

**Figure AR38-1** ――――――――――――――――――――



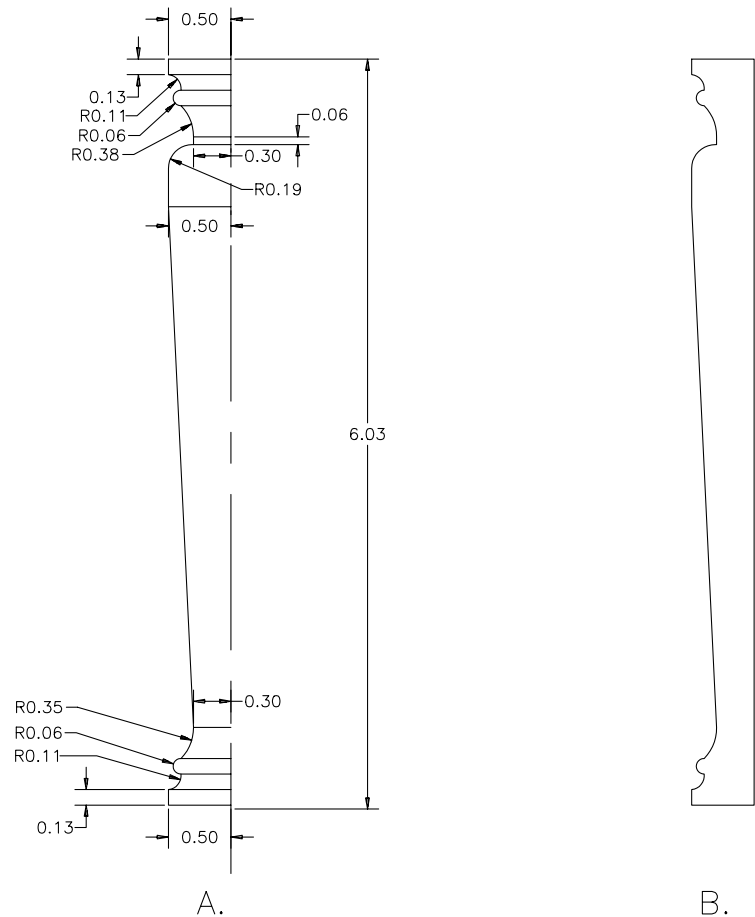2.  Complete a solid model of the bunk bed set shown in Figure AR38-2. Do not *Union* the componenets. *Save* as **BUNKBED**.

**Figure AR38-2** ――――――――――――――――――――

3.  Make a solid model of the stair spindle shown in Figure AR38-3. Draw only one half of the profile according to the dimensions (Figure AR38-3, A). Convert the profile to a *Pline* as shown in Figure AR38-3, B. *Revolve* the profile around the center axis to create the solid. *Save* as **SPINDLE**.
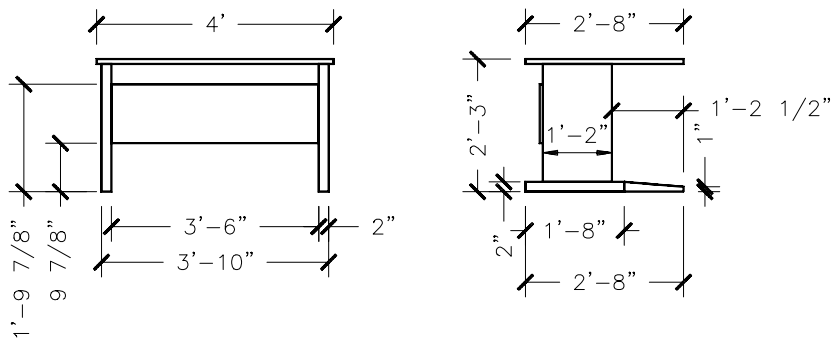
**Figure AR38-3**

0.50

0.13
R0.11
R0.06
R0.38

0.06
0.30
R0.19

0.50

6.03

R0.35
R0.06
R0.11

0.30

0.13

0.50

A.

B.

4.  Create the required solid models of each of the five components shown in Figure AR38-4. Use *Extrude* to create solids for the parts. Use the following thicknesses:

    Table Top  = 1″
    Privacy Plate = .125″
    Left and Right Panels = 2″
    Base = 2″

**Figure AR38-4**

4'

3'–6"    2"
3'–10"

1'–9 7/8"    9 7/8"

2'–8"

2'–3"    1'–2"    1'–2 1/2"    1"

2"    1'–8"
2"    2'–8"

Create the casters by drawing a *Cylinder* with a diameter of 2-1/2″ and a height of 1″.

Use the *Align* command or other method(s) to assemble the parts of the computer table.  Your completed table should look like that shown in Figure AR38-5.  *Save* as **C-TABLE**.

**Figure AR38-5** ─────────────