Lesson 9

Copy the Lesson_9 folder from the V:\METBD_297a subdirectory to your working directory. This folder contains the following files:

- Axle.prt
- Bplate.prt
- Bolt.prt
- Bushing.prt
- Lbrack.prt
- Pulley.prt
- Washer.prt

These parts have been pre-drawn for you and all of them except the Bolt part have the correct color applied.

Skip the section titled Creating the Assembly Components on page 9-2 through 9-5.
Start with the Assembly Constraint section on page 9-5.

Page 9-10. You are prompted to make sure only the Separate Window option is selected. Be advised that you will probably have to grab the corner of the window and resize the window smaller in order to see both the assembly window and part window on the monitor.

Page 9-13. When Creating the Main Assembly, you are prompted to select an assembly template called mmns_asm_design. We do not have that template. Select the Start template and set the units to metric using Edit – Setup – Units.

Page 9-14. The “second method” is using coordinate systems. We do not have a coordinate system defined on the plate so you cannot use this method.

Page 9-16. The plate model that you have constrained will be 90 degrees to that shown in the text.

Page 9-23. You will only be defining the color of the Bolt. Make it red.

Page 9-25. After setting your color and saving your assembly, run a global interference check on your model. Do this by selecting (at the
Assembly level), Analysis – Model Analysis and use the pull down handle to select Global Interference. Select the Compute button near the bottom of the dialog box. You should have a message stating there are no interfering parts in the prompt line.

Create a screen capture similar to the following and print it on a COLOR printer. Note that the Pro/E Window has been altered (aspect ratio) such that the assembly is only slightly larger than the expanded model tree and that the prompt line is readable.