

Inventor Assignment #7B

Reading Assignment:

Read Chapter 13 in Parametric Modeling with Autodesk Inventor 2009, by Randy Shih

Computer Assignment:

(Note: You will be given more time for this project as it is more involved. Warning: As with all assignments, all work must be your own.)

Complete the Exercise (Wheel Assembly) at the end of Chapter 13 in the text.

Additional specifications:

- 1) Create metric parts for the 4 parts in the problem (Base Plate, Bracket, Wheel, and Axle).
 - Create a **detail drawing** for each part using an A-size sheet with an appropriate scale. You can select either landscape or portrait sheets. Note that each drawing should be metric with all dimensions in whole mm. Save each part with appropriate file names (NOT Part1, Part2, etc.)
 - The detail drawings for the first two parts (Base Plate and Bracket) should include 4 views (front, top, right, and isometric), including dimensions, title block information, etc.
 - The detail drawings for the last two parts (Wheel and Axle) should include 3 views (front, right, and isometric)
- 2) Create an assembly using the 4 parts. Use appropriate constraints to put the parts together.
- 3) Create an assembly drawing using an A-size (portrait) sheet with an appropriate scale. Include:
 - A parts list (include a column for material with mild steel listed as the material for each)
 - Balloons identifying each part
 - Appropriate title block information.Do not include dimensions.
- 4) Demonstrate proper operation of the assembly to the instructor. The instructor will initial the "CHECKED" box on the assembly drawing sheet.
- 5) Staple together the assembly drawing and the four detail drawings and submit them to the instructor.