

University of Southern California

AME101 - Fall 2017

Graphics Lab Homework Assignment #1

September 14, 2017

Due Date: **Friday, September 29, 2017 at 4:00PM**

- 1) Soft Copy: Submit a compressed folder (zipped) of your SolidWorks Files to ame101f17@gmail.com Please name your folder **LastName,FirstName-HW1.zip** by 4:00PM. Remember there is **NO RESUBMISSION!**
- 2) Hard Copy: Submit a printout to OHE 430N by 4:00PM (follow the template on the Blackboard)

Problem 1 - Bracket Sketch

Recreate the sketch as shown below in Figure 1.

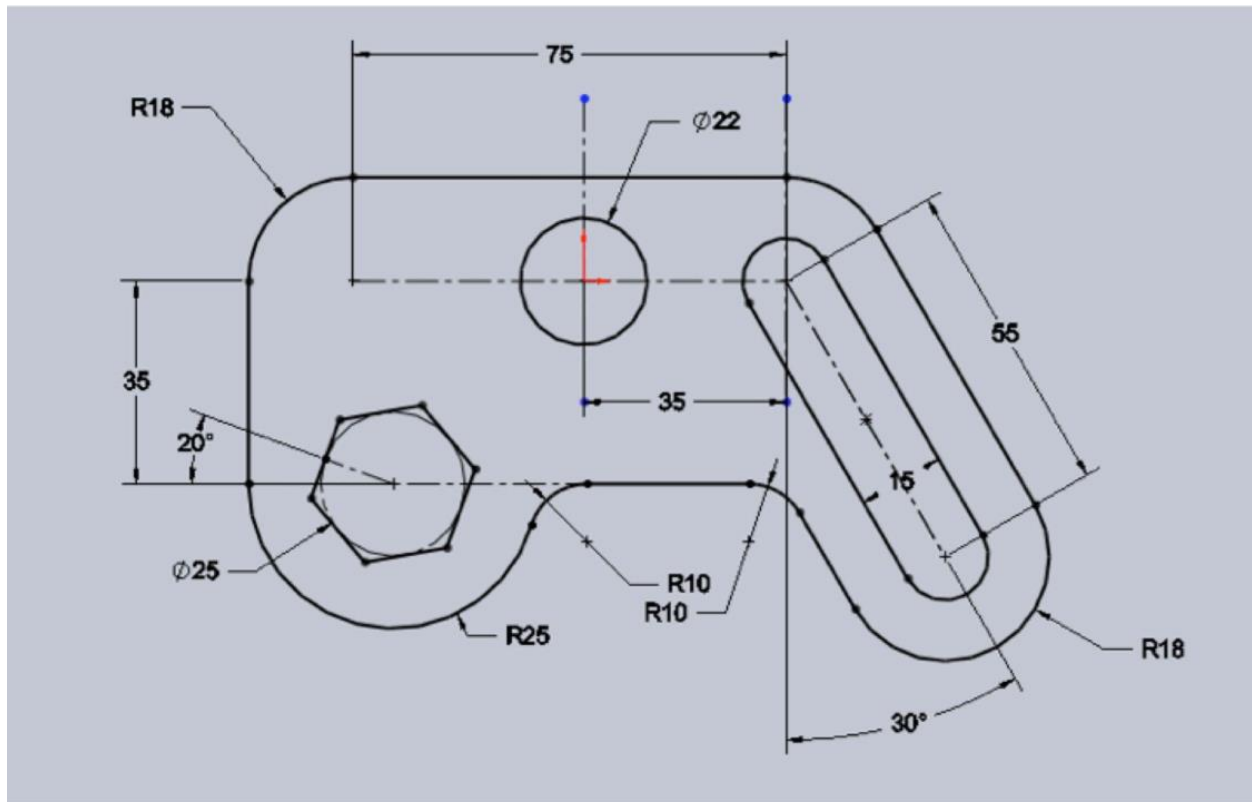


Figure 1. Bracket Sketch

- All dimensions are in millimeters
- Put the center of the 22mm diameter circle at the origin of the sketch window
- All entities in the sketch must be completely defined and constrained (fully-defined)
- Construction elements (shown in double-chain line style) are recommended to fully define the sketch
- Name the file *problem1.sldprt*

Problem 2 - Revolve Sketch

Recreate the sketch as shown below in Figure 2.

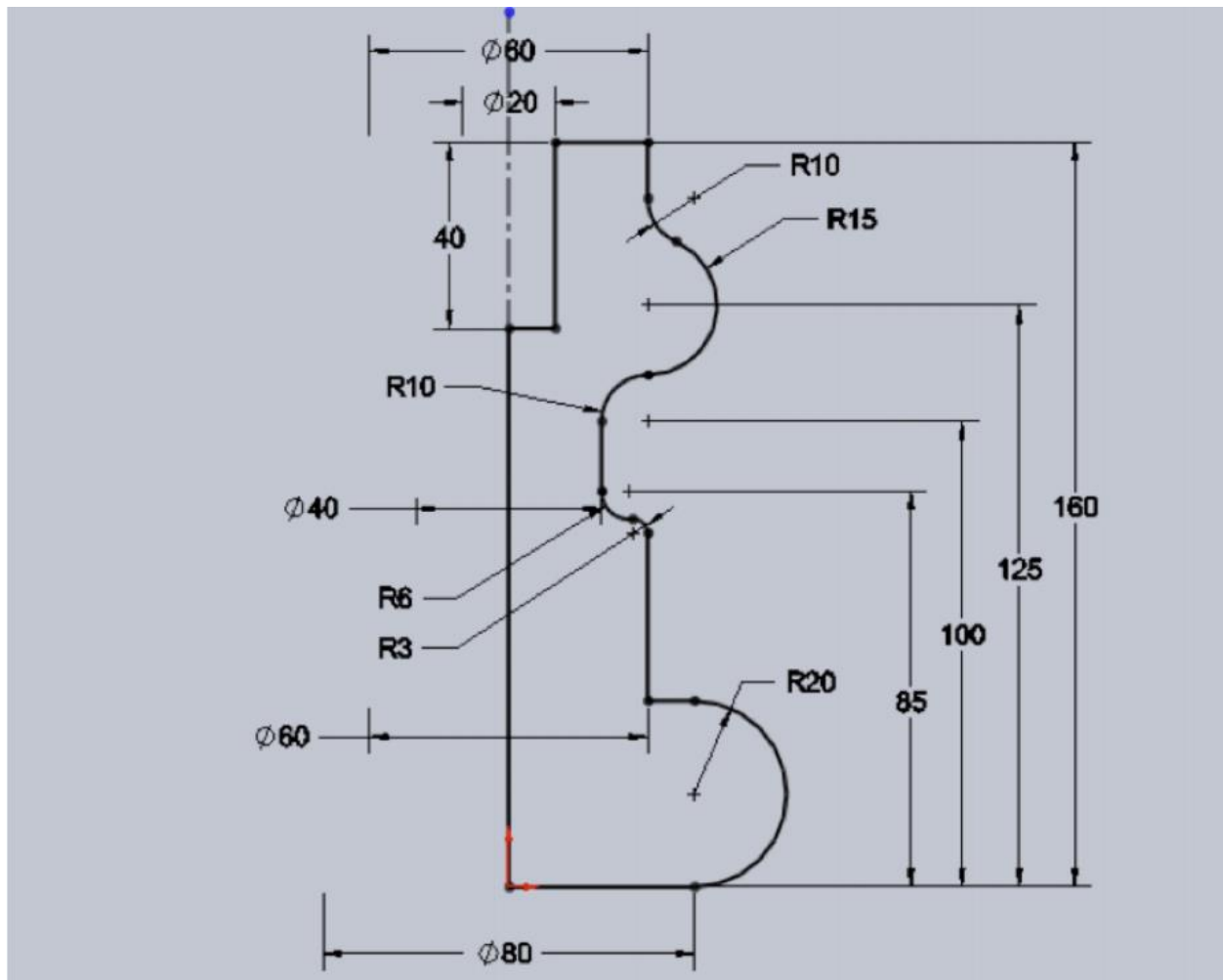


Figure 2. Revolve Sketch

- All dimensions are in millimeters
- Put the bottom left-hand corner (near the 80mm dimension) at the origin of the sketch window
- All entities in the sketch must be completely defined and constrained (fully-defined)

- Construction elements (shown in double-chain line style) are recommended to fully define the sketch
- Name the file *problem2.sldprt*