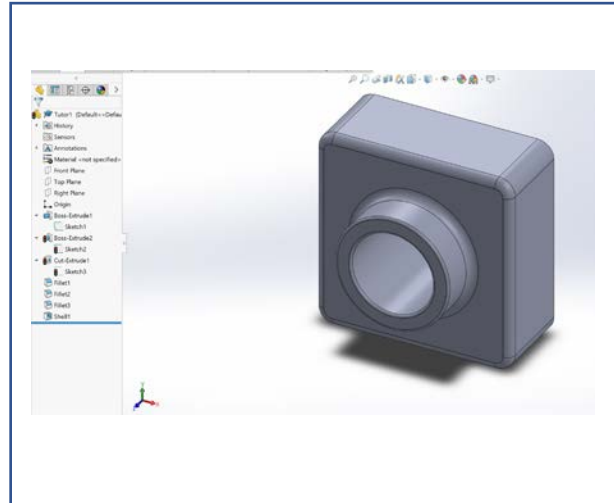
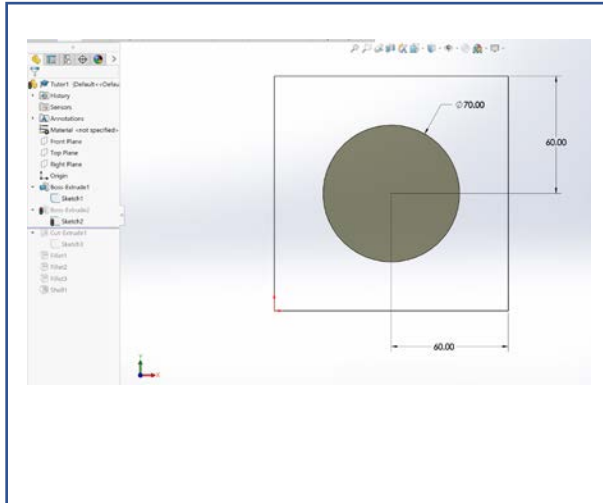


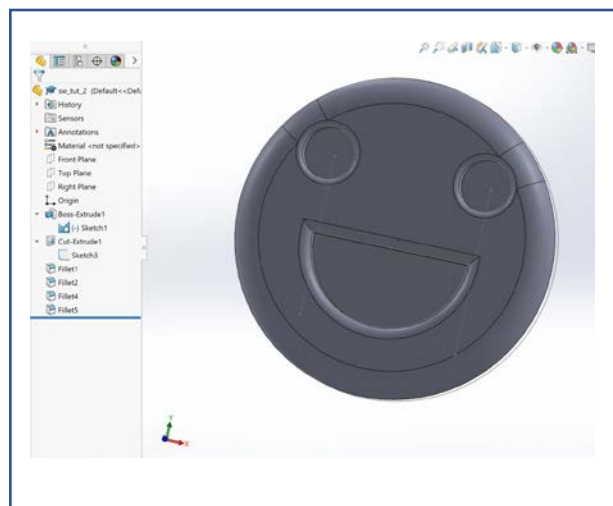
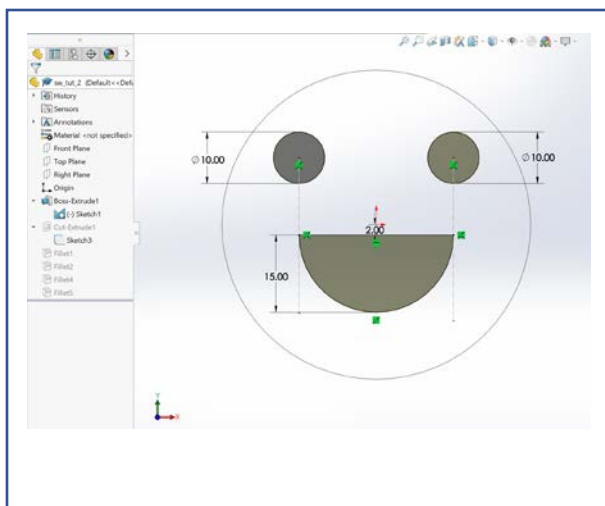
SolidWorks Worksheet

Create the following Parts in SolidWorks. You will need to submit document as a PDF on GradeScope. You will also need to submit problem 4's part onto GradeScope, with both a 3D PDF and a .SLDPRT compressed into a .ZIP folder.

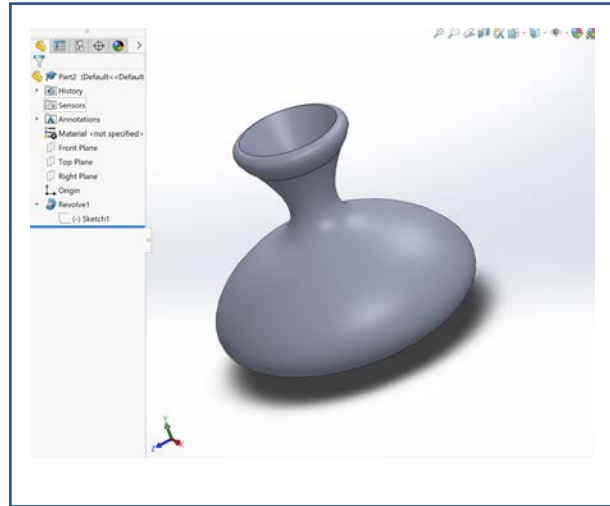
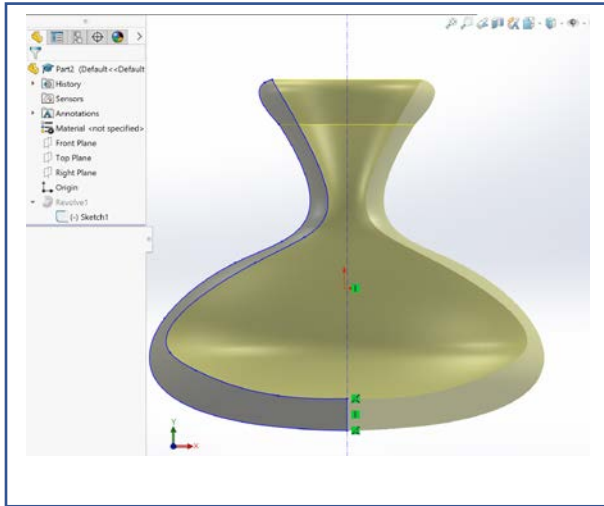
1. (4 points) Follow Lesson 1: Parts – a built-in tutorial in SolidWorks (Help → SolidWorks Tutorials → Getting Started → Lesson 1: Parts)



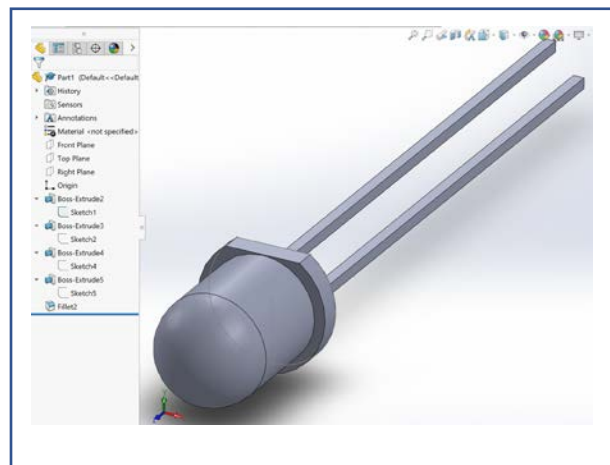
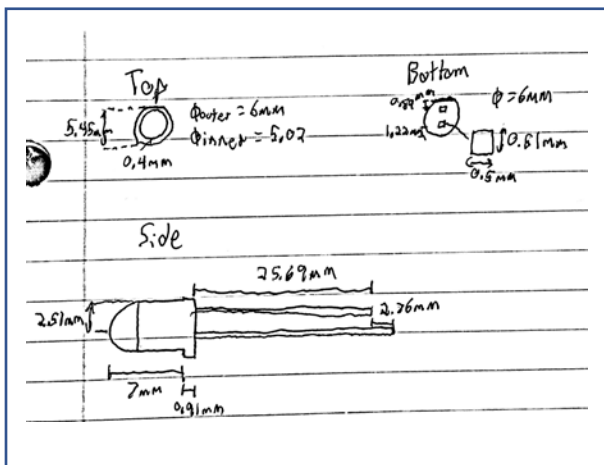
2. (4 points) Create a smiley face plate: Use at least **one extrude**, and **one extrude-cut**. **Fully define** all sketches using relations and/or smart dimensions.



3. (4 points) Create a vase / pen holder using at least **one spline**, and **one revolve**. You may add onto this beyond the revolve if desired. **You do not need to fully define** your sketch since splines can be complicated to fully define)



4. (7 points) Take one of your components from the parts given to you for lab 0 and lab 1. Use a caliper and/or ruler to measure your part. Draw a **hand-sketched model** and label major dimensions (**work in millimeters!**) of the part. Finally, create a **SolidWorks Model/Part**. Finally save your **.SLDPRT** file as well as a **3D PDF** file into one **.ZIP** folder. (Effort will be considered as part of your grade for this section, so do your best to replicate (ie, if you chose to develop a model for a breadboard, a simple rectangular box made of one extrusion would not give much credit).



Comments: (1 points) Write here in a couple of sentences describing what was most challenging for you in terms of modeling this part in SolidWorks: The most challenging part of this was getting the bulb of the LED defined in relation to the flat part of the base.