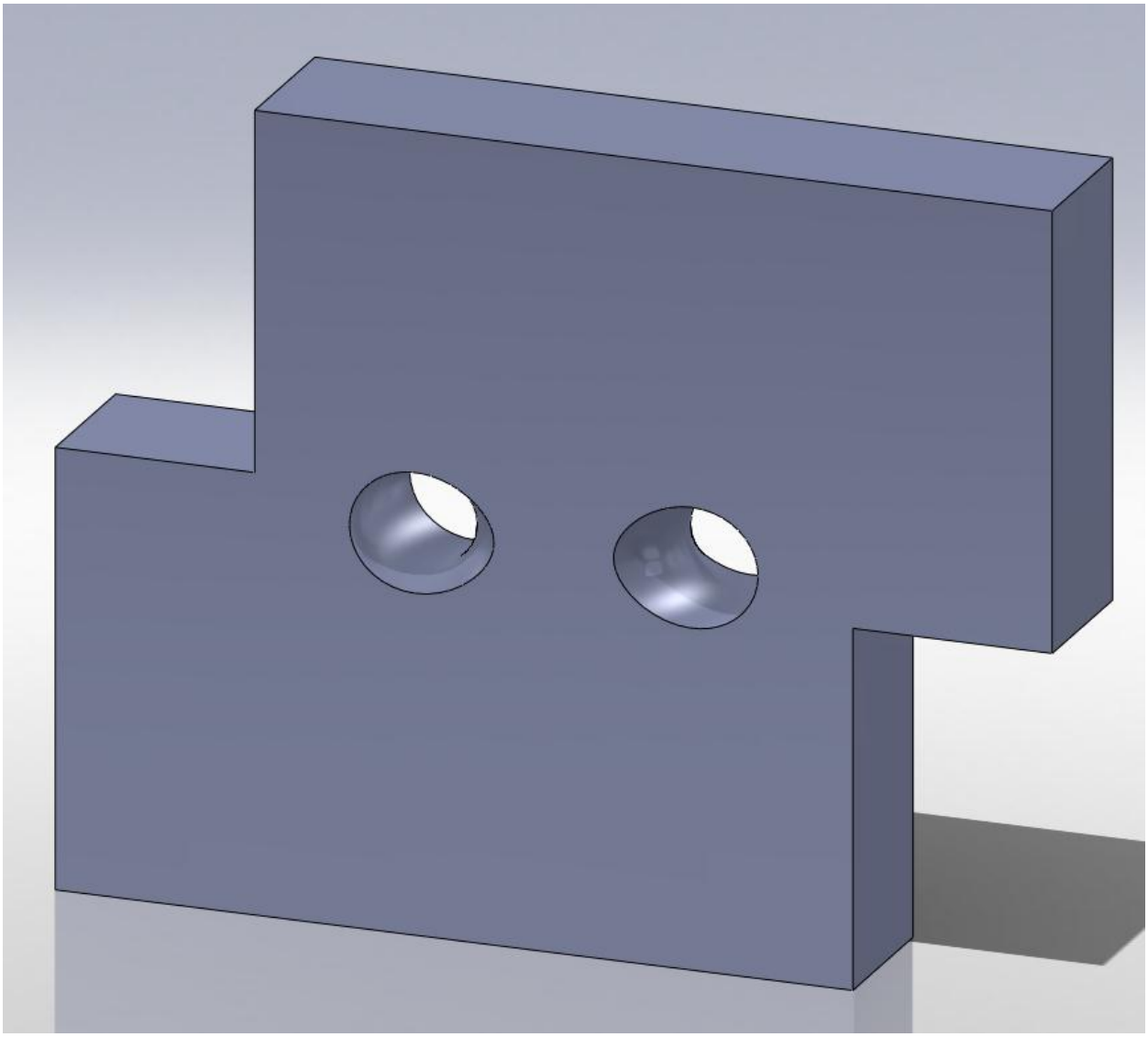
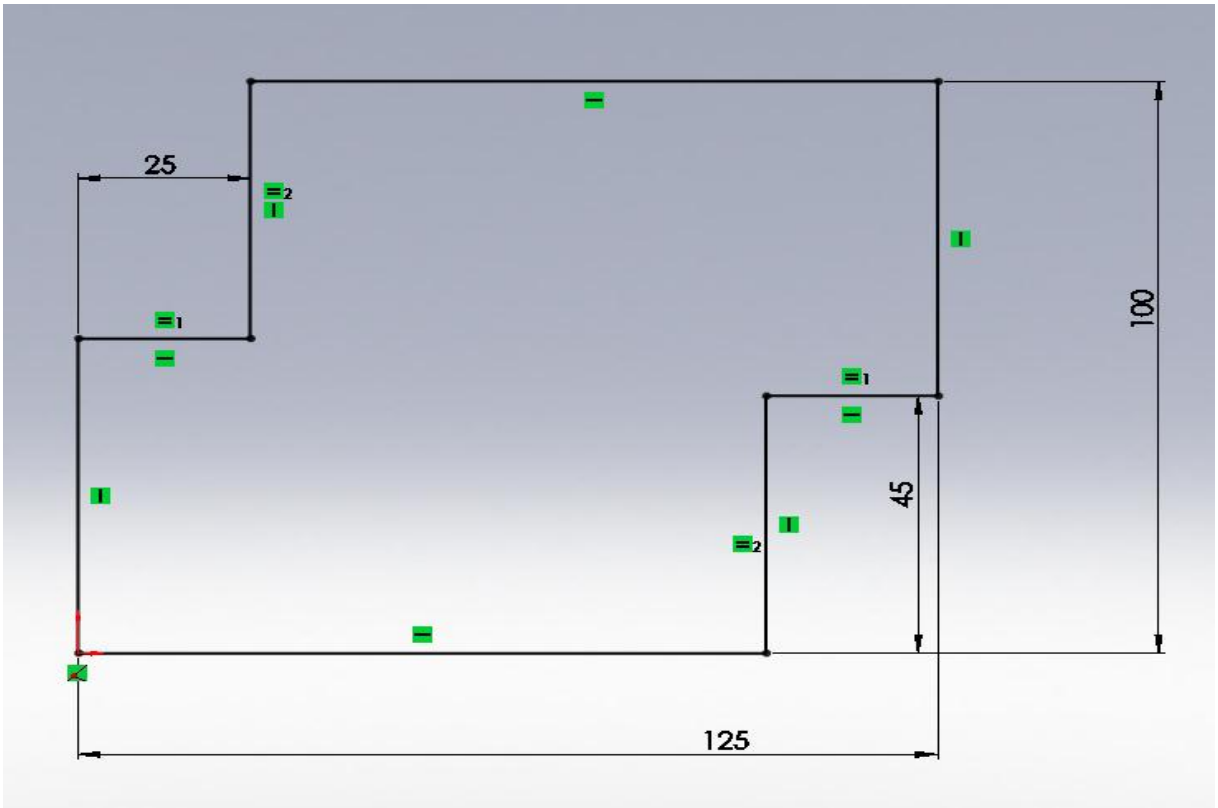
Homework 6

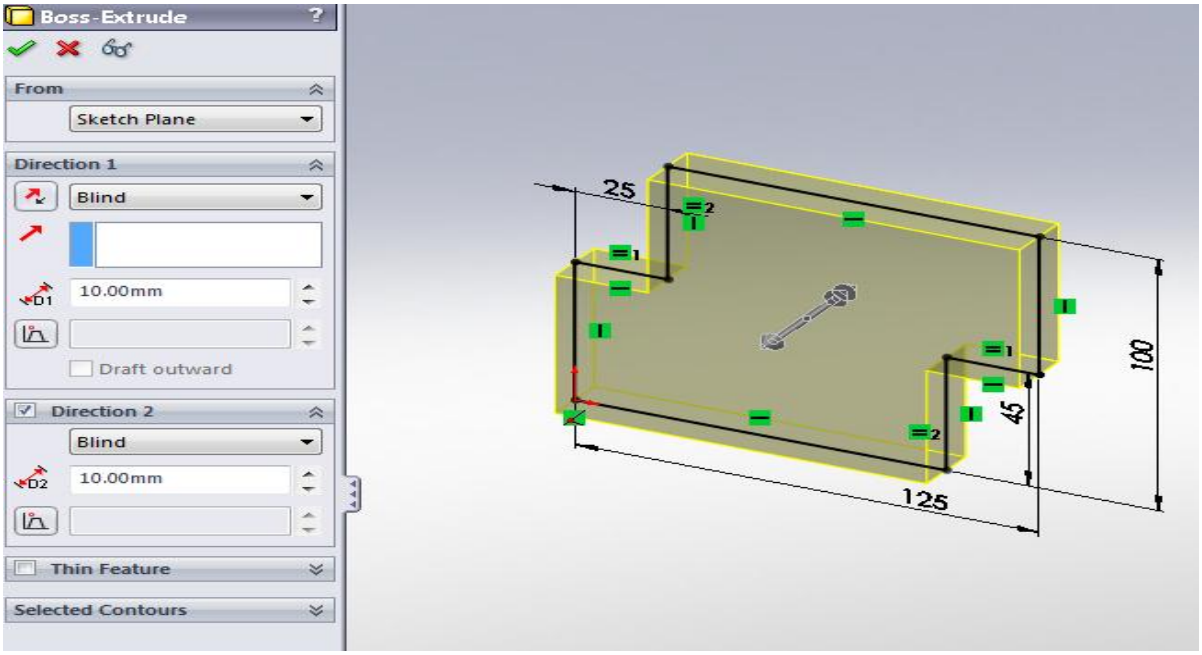


Save file as “Firstname_Lastname_hw6.sldprt”

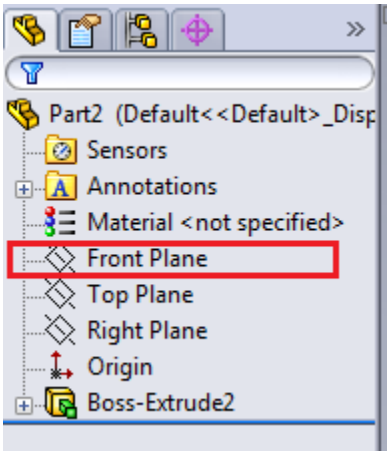
1. Create the following sketch on the **FRONT** Plane (**UNITS = mm**). Note the constraint where some lines are of **EQUAL** length.



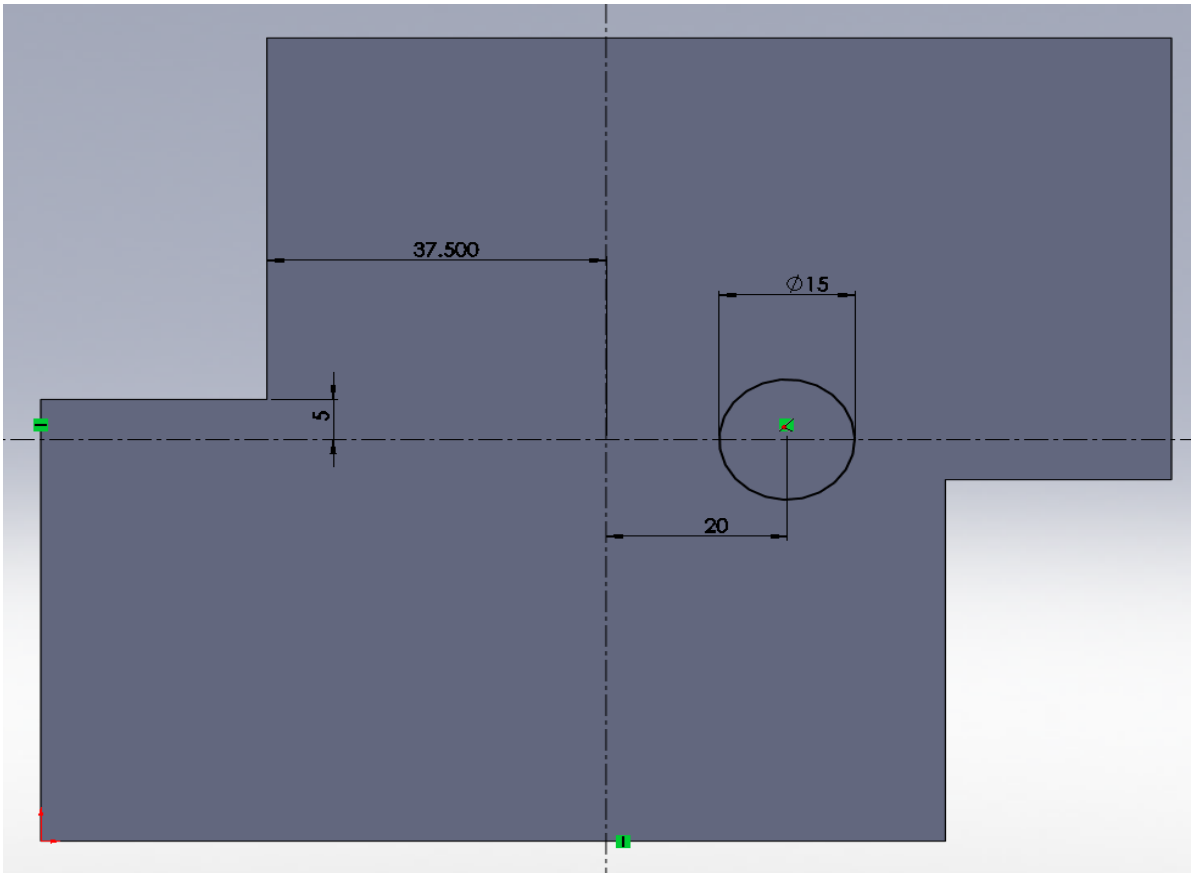
2. **EXTRUDE** this in **DIRECTION 1** to a distance of **10 mm**, as well as in **DIRECTION 2** a distance of **10 mm**.



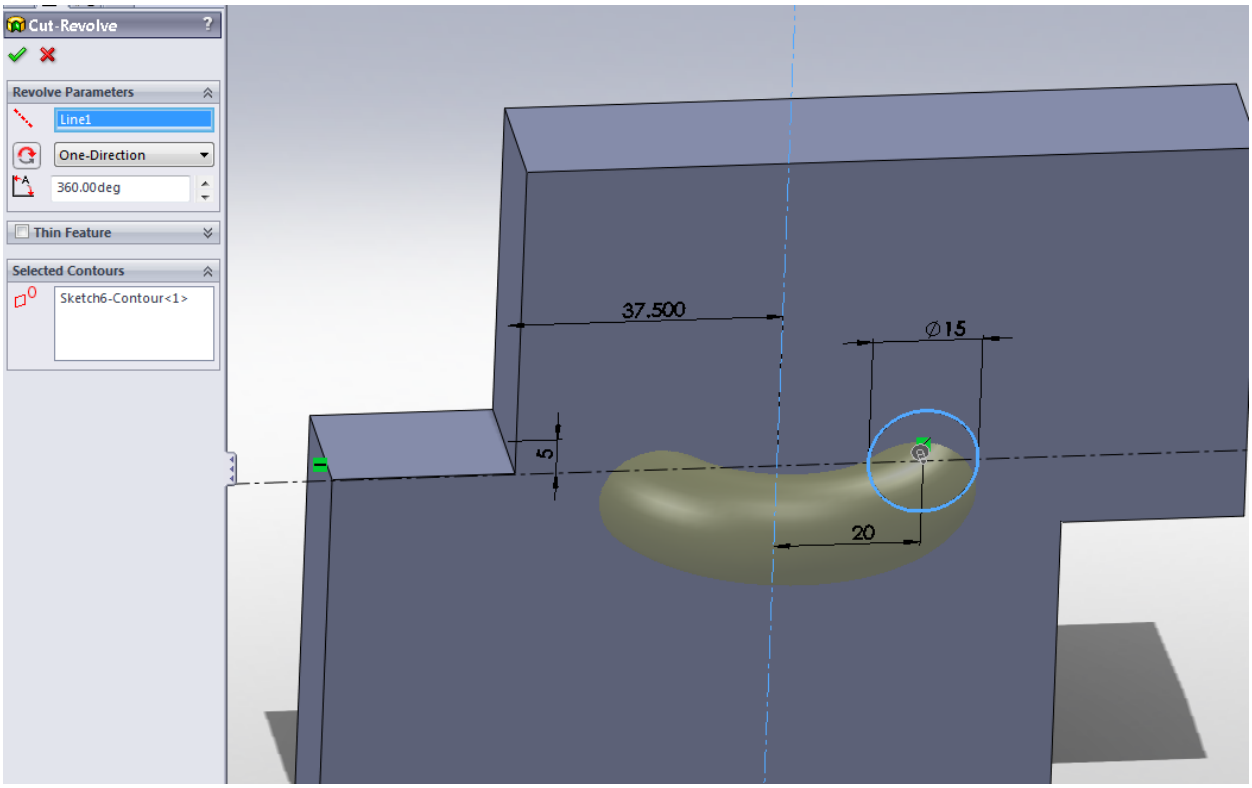
3. **Create another sketch on the **FRONT PLANE**. To do this, click the **SKETCH** button. When it asks you which plane to draw on, click on the **DESIGN TREE** button:  and select **FRONT PLANE.**



4. It may now appear that you are drawing on the newly extruded edge, but if you did everything properly, you will be sketching on the **FRONT PLANE**, which is exactly halfway between the two extruded faces. Make the following sketch:



5. Now, make a **REVOLVED CUT** of the circle that you just drew, about the infinite centerline you drew parallel to the y-axis.



The finished part should appear as the following: