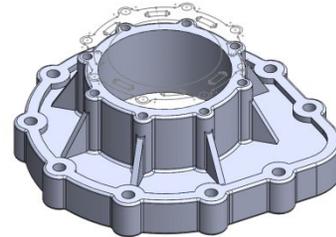## Summary

In this lesson you'll create a sketch for a slot on a provided plane, and then use the circular sketch pattern tool to duplicate elements around the sketch. In order to create the sketch accurately you'll additionally need to use the convert entities and sketch fillet tools.
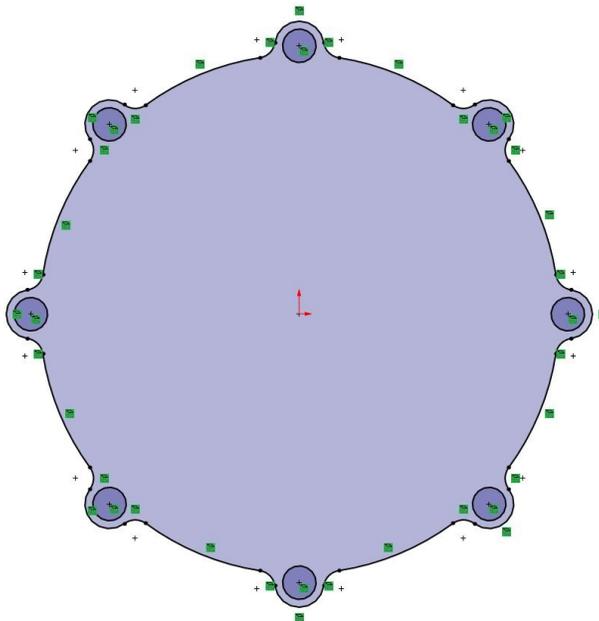
Reference Lessons
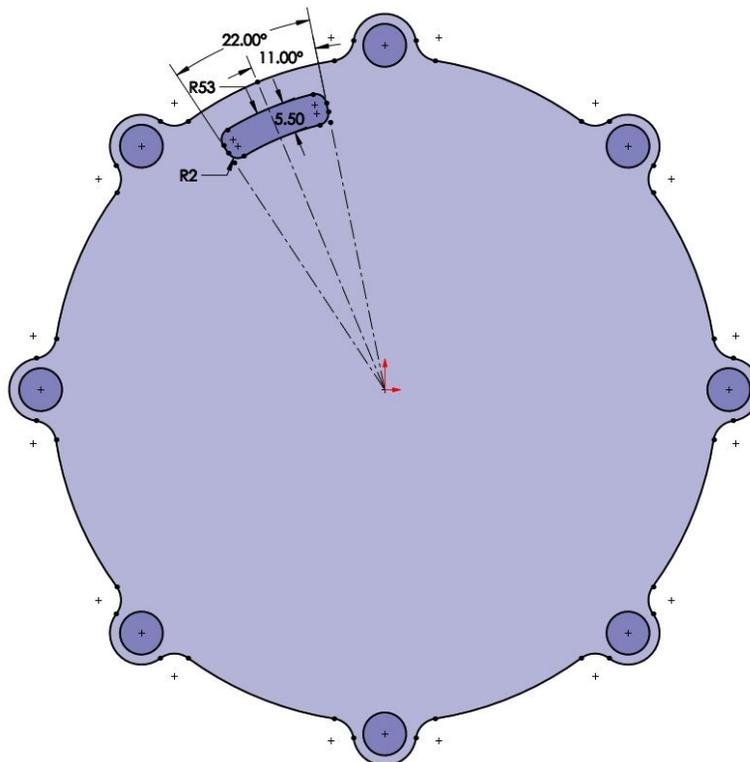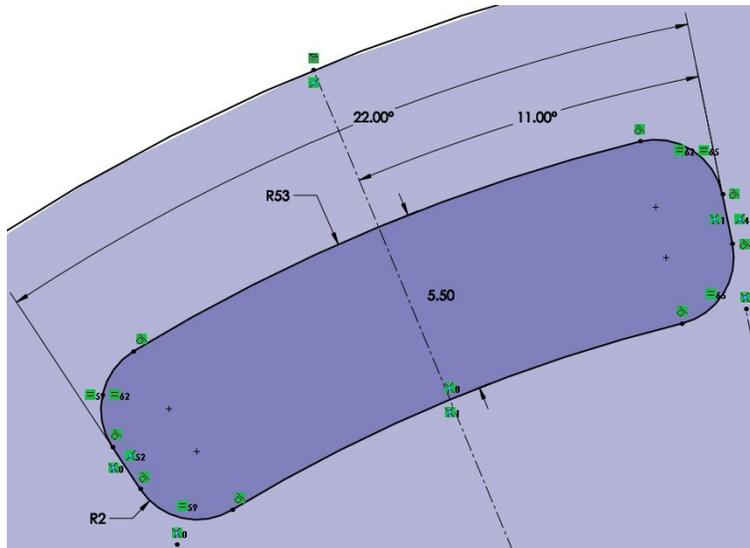
- Sketch Fillets
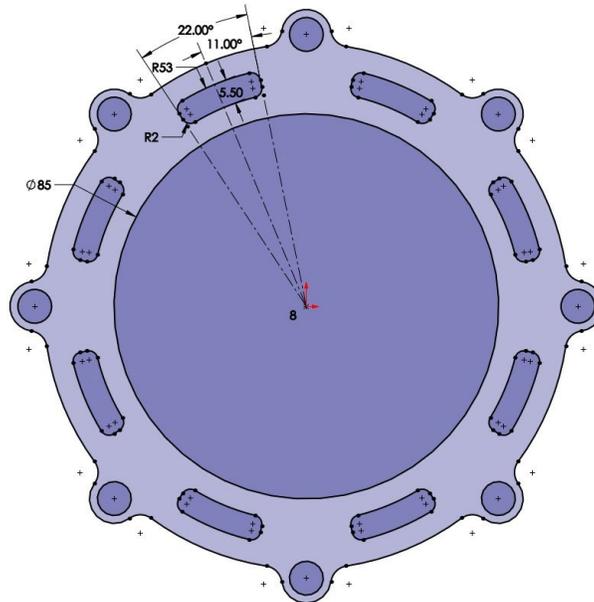- Convert Entities
- Sketch Patterns

Instructions

1. Download and unzip the part file here.

2. Open the "Pipe Bracket.SLDPRT" file in SOLIDWORKS.

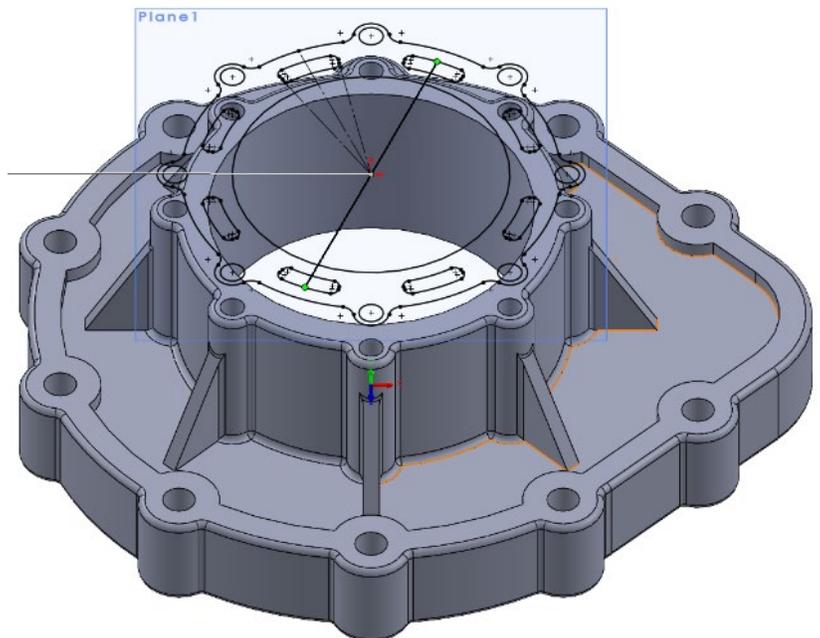3. Start a new sketch on Plane 1 and convert the elements needed to match the sketch below.

4. Next, add a slot according to the images below.

5. Finish the sketch by adding a center circle and patterning the slot to match the image provided.

6. Go to the Evaluate tab on the CommandManager and select the measure tool. What is the distance between the two slots in millimeters?

Final Result

Check your answer using the online exercise.

If you completed the exercise successfully, you should have received a "correct" pop-up in the exercise window, and your result should look like the image shown below.