Worm Face Gear

3d CAD modeling in SolidWorks using special Excel VBA macro from

Spiral Bevel Corporation. 2016.

Generate Worm Face gear tooth surface files using special Excel file from Spiral Bevel Corporation.
Run VBA Macros to generate each gear tooth flank.

Open both flanks in SolidWorks
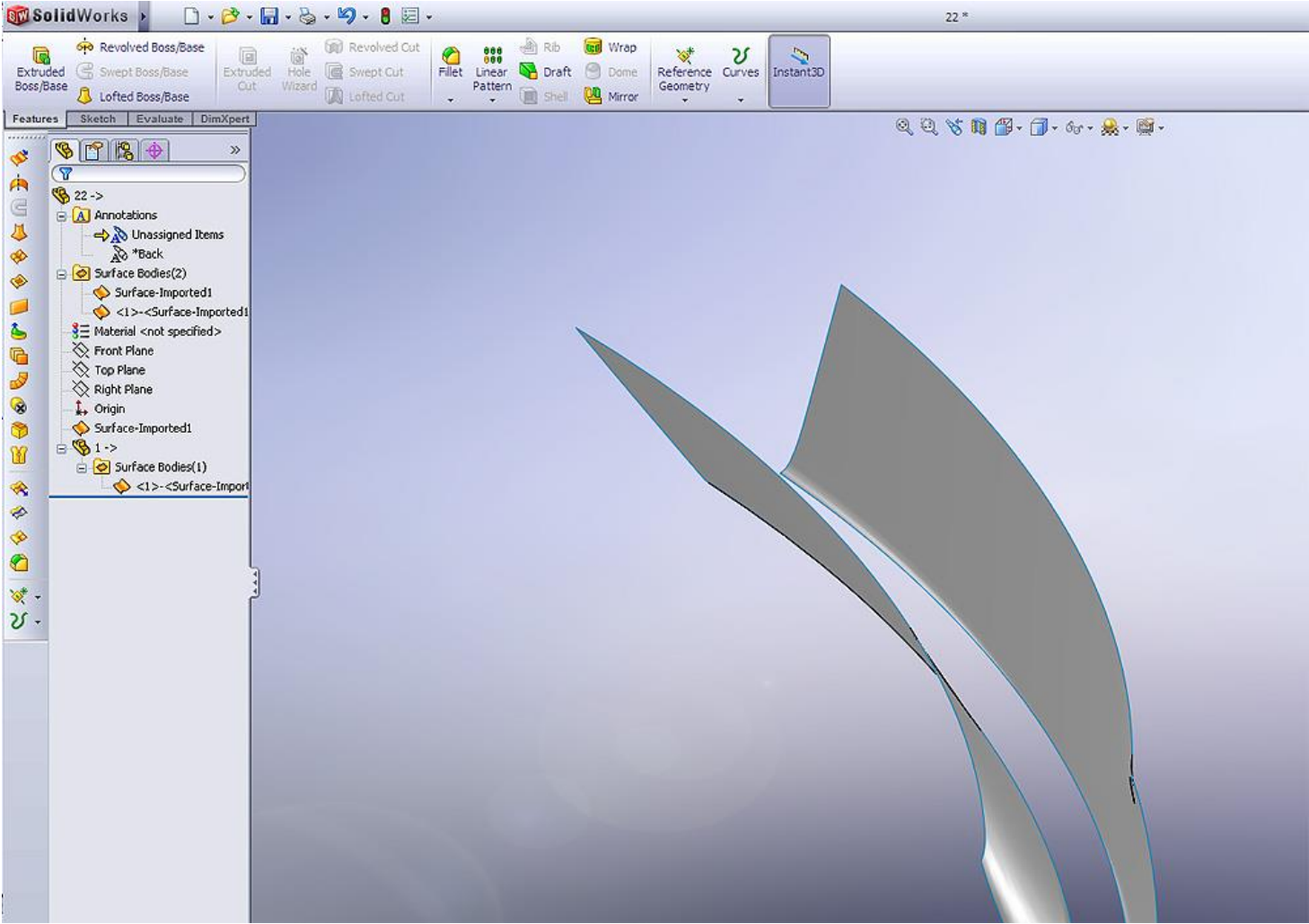
Build the root surface any way you like. This example shows smooth surface tangent to each flank.
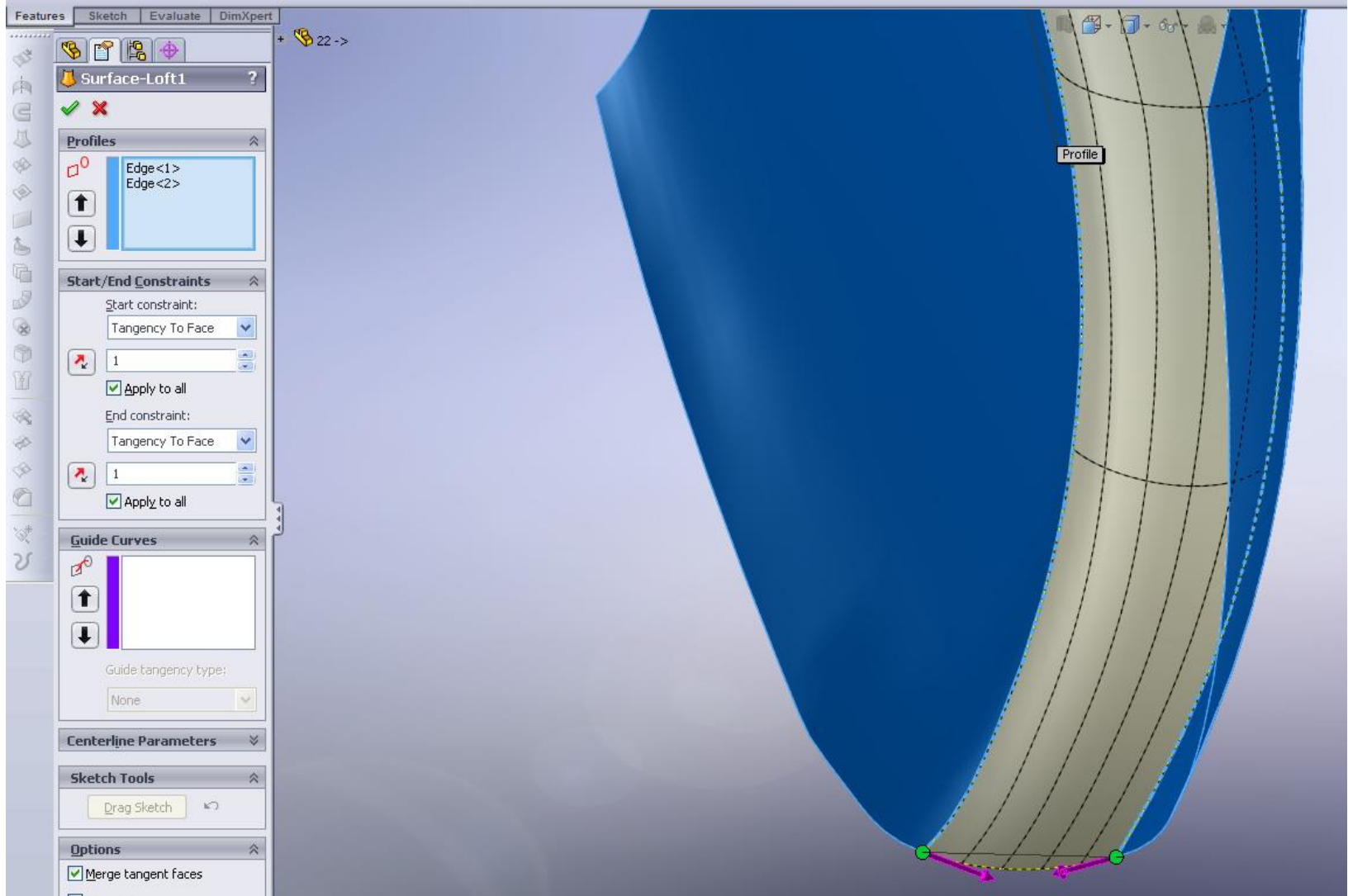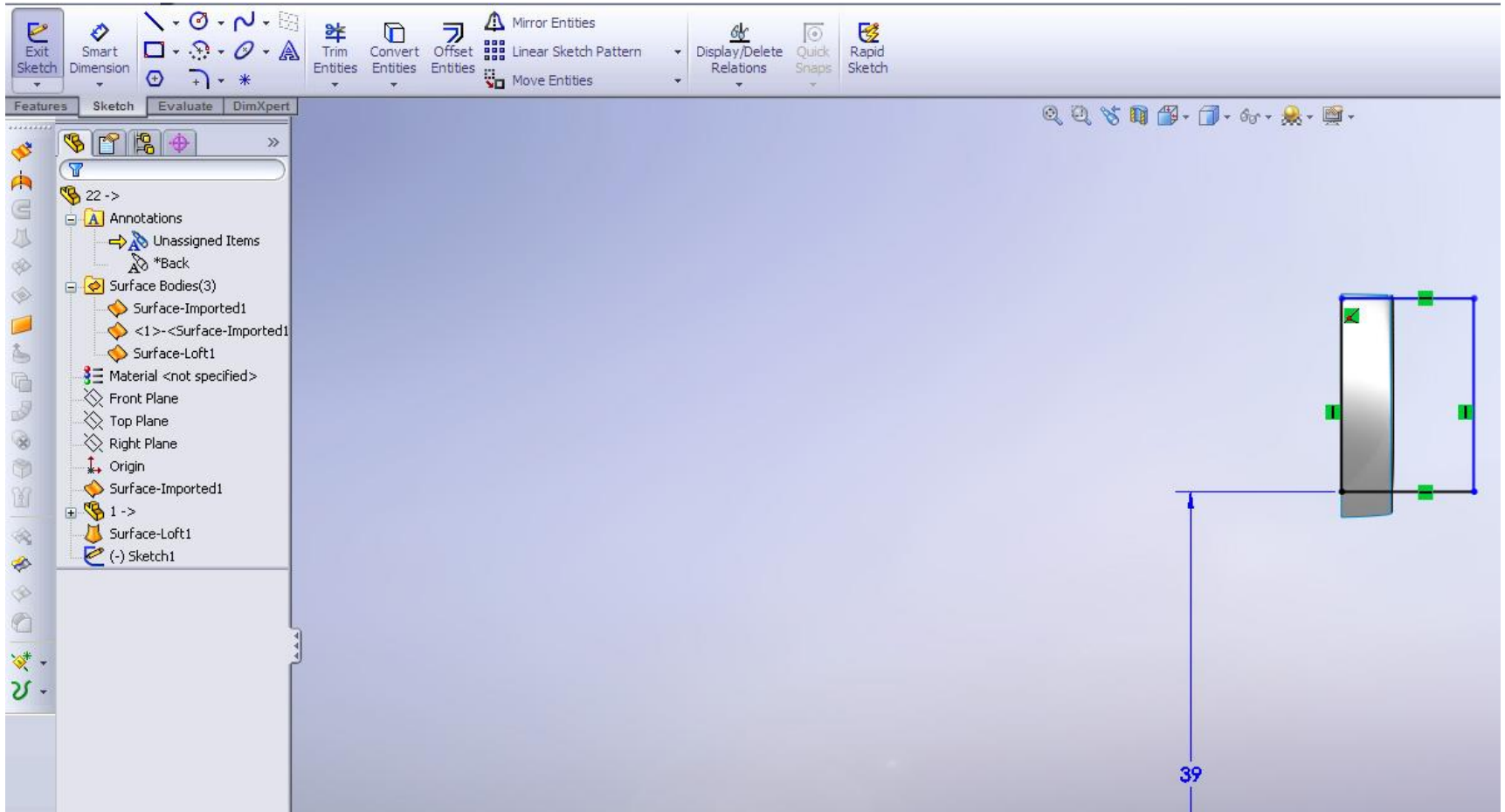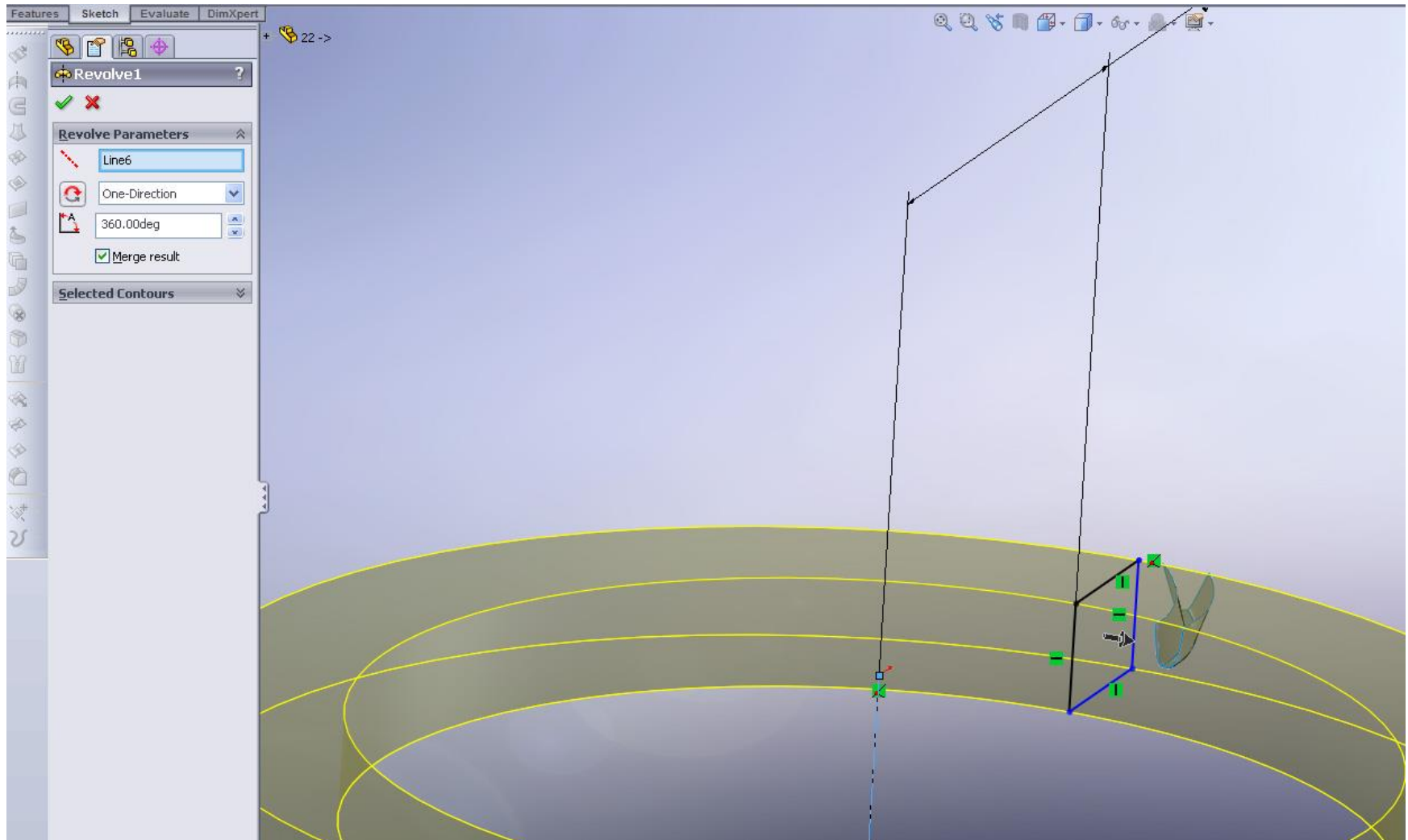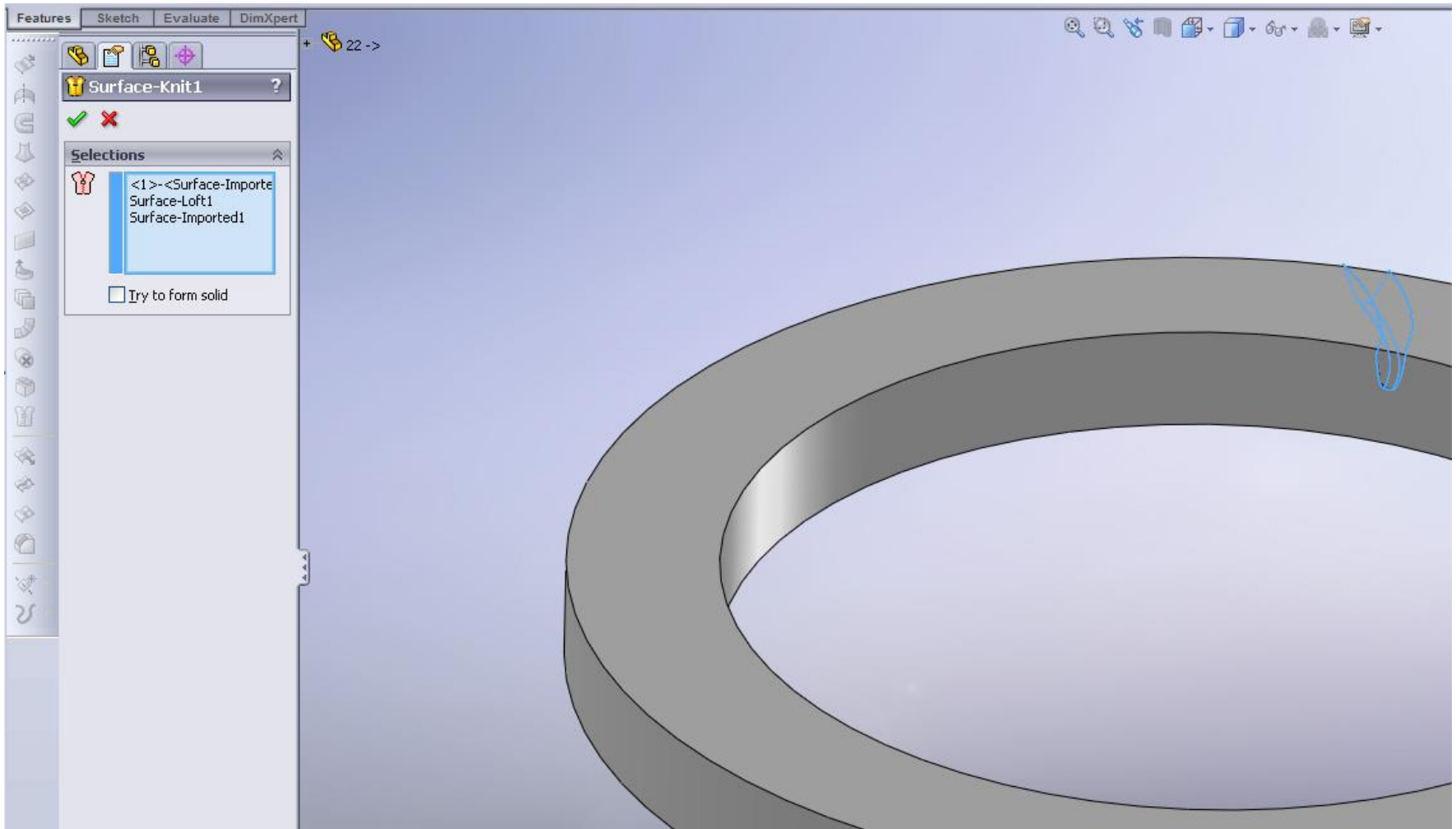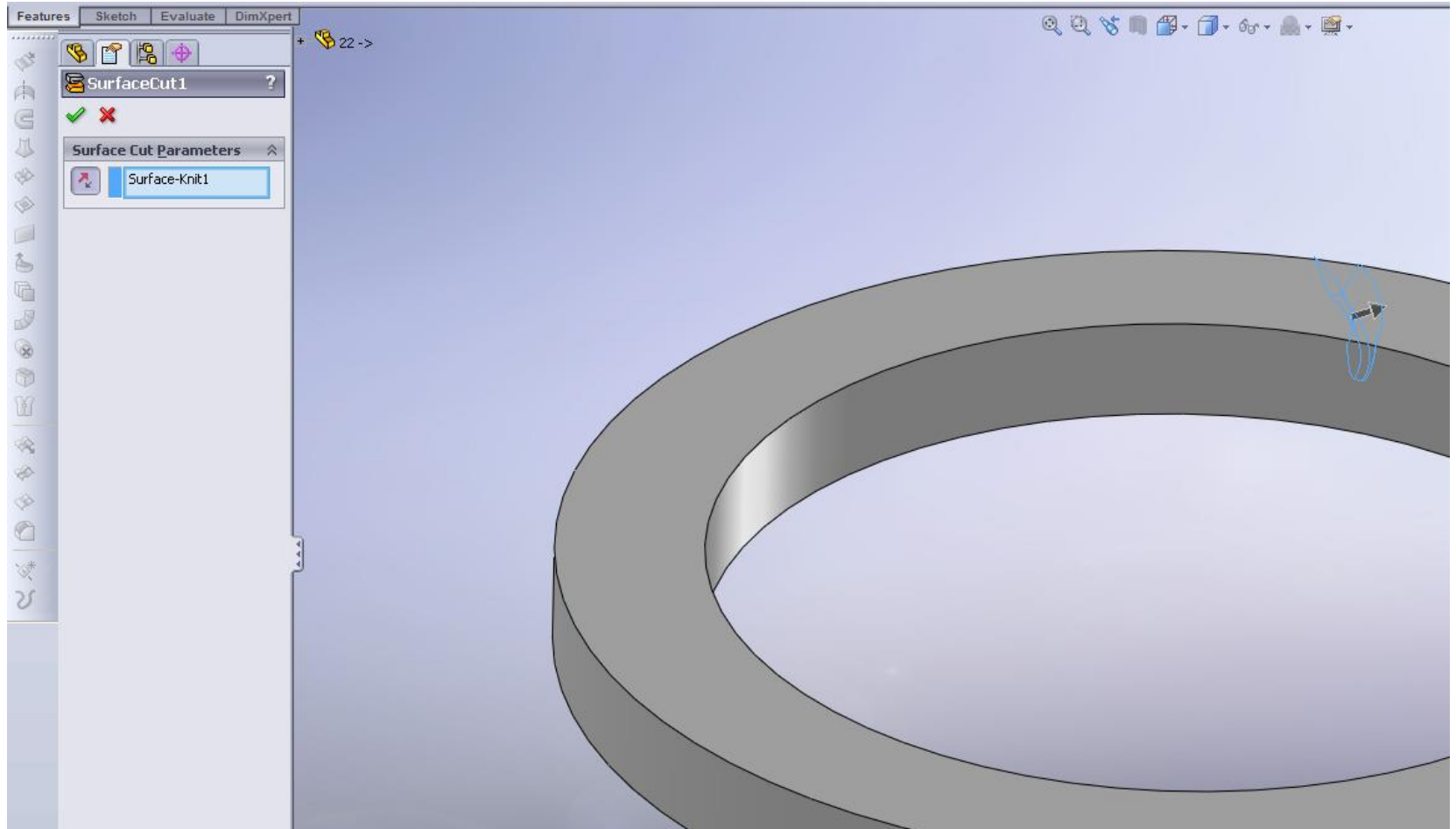
Sketch the gear blank.

Make the gear blank from sketch.

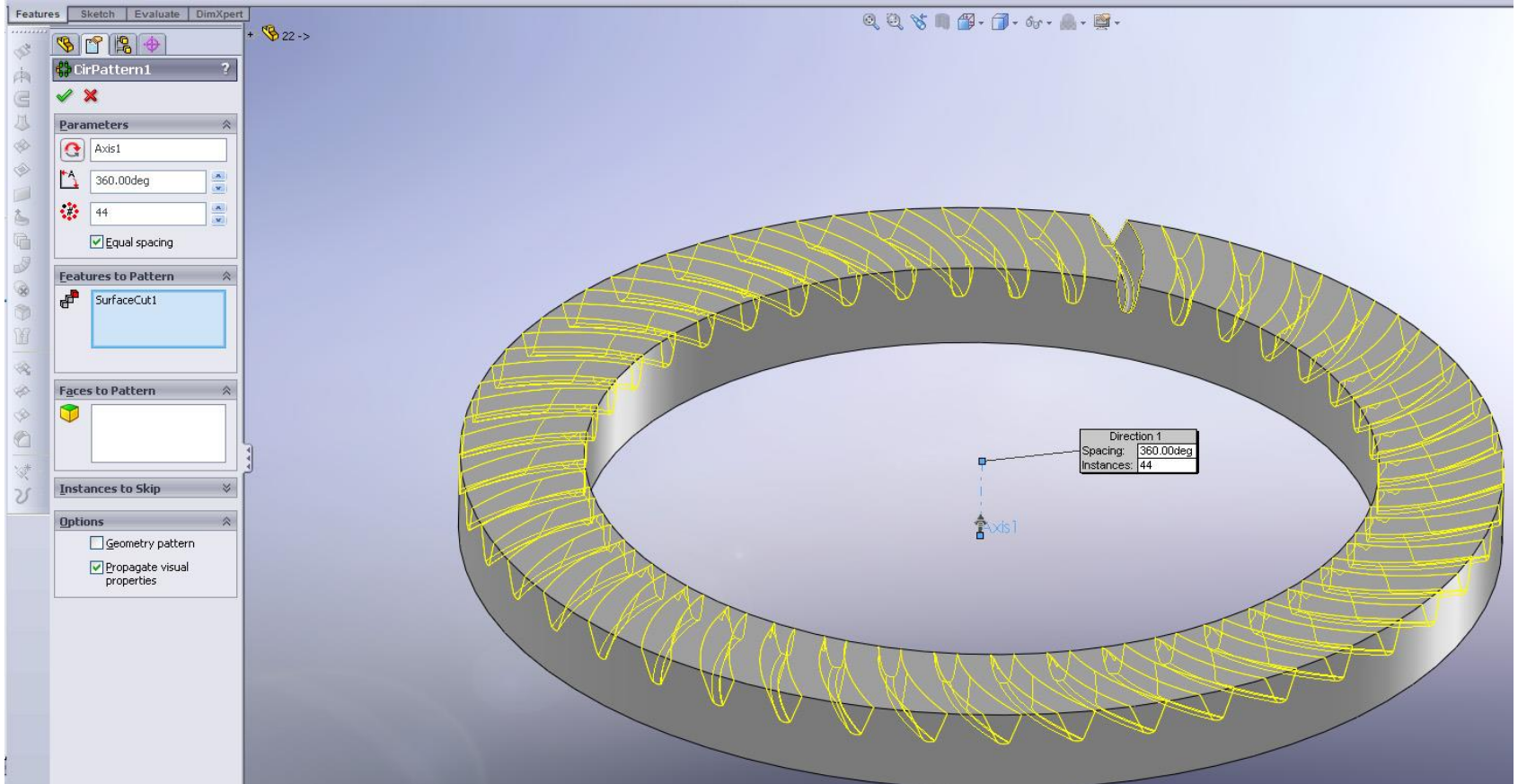# Connect both flanks and the root surfaces into one surface.

Cut the blank with the surface.

Circular pattern the slot for number of teeth

Use the final 3d CAD model for manufacturing and inspection.