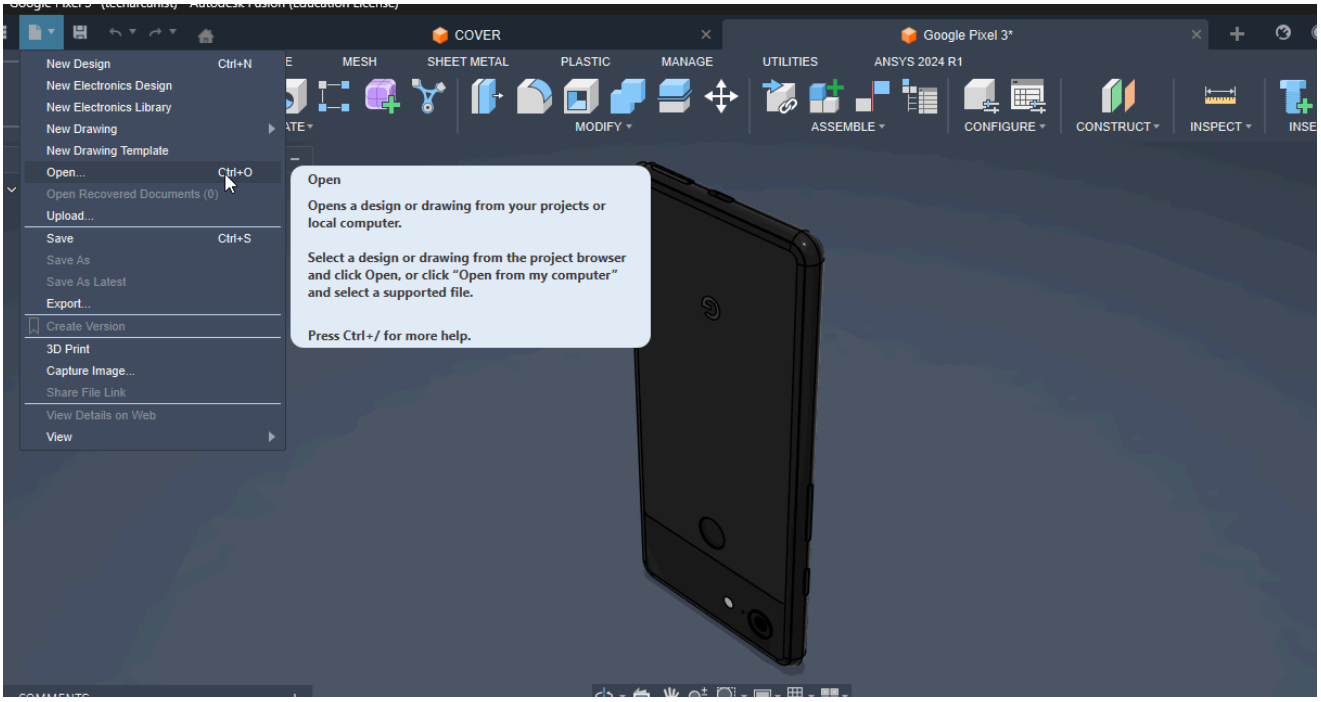
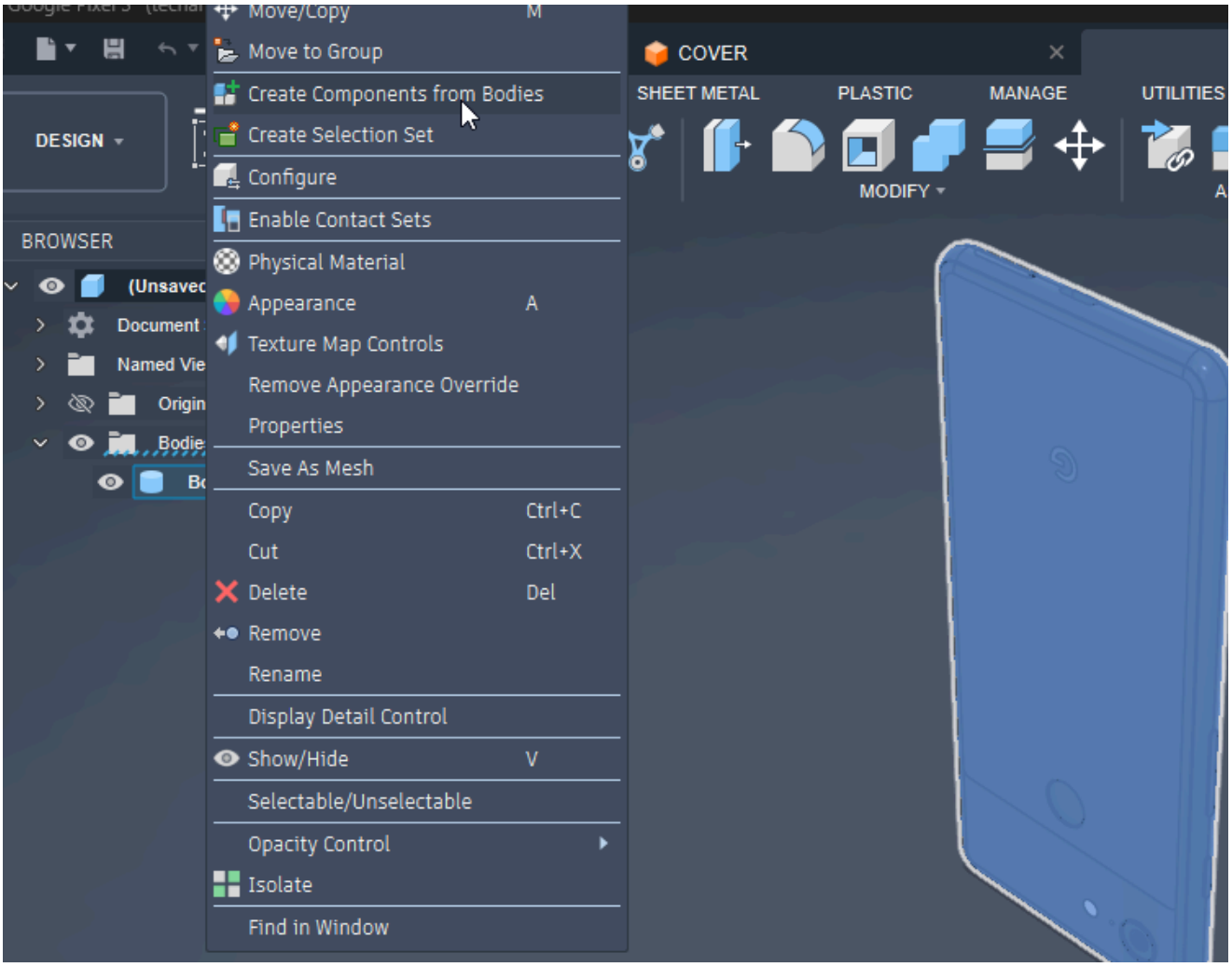
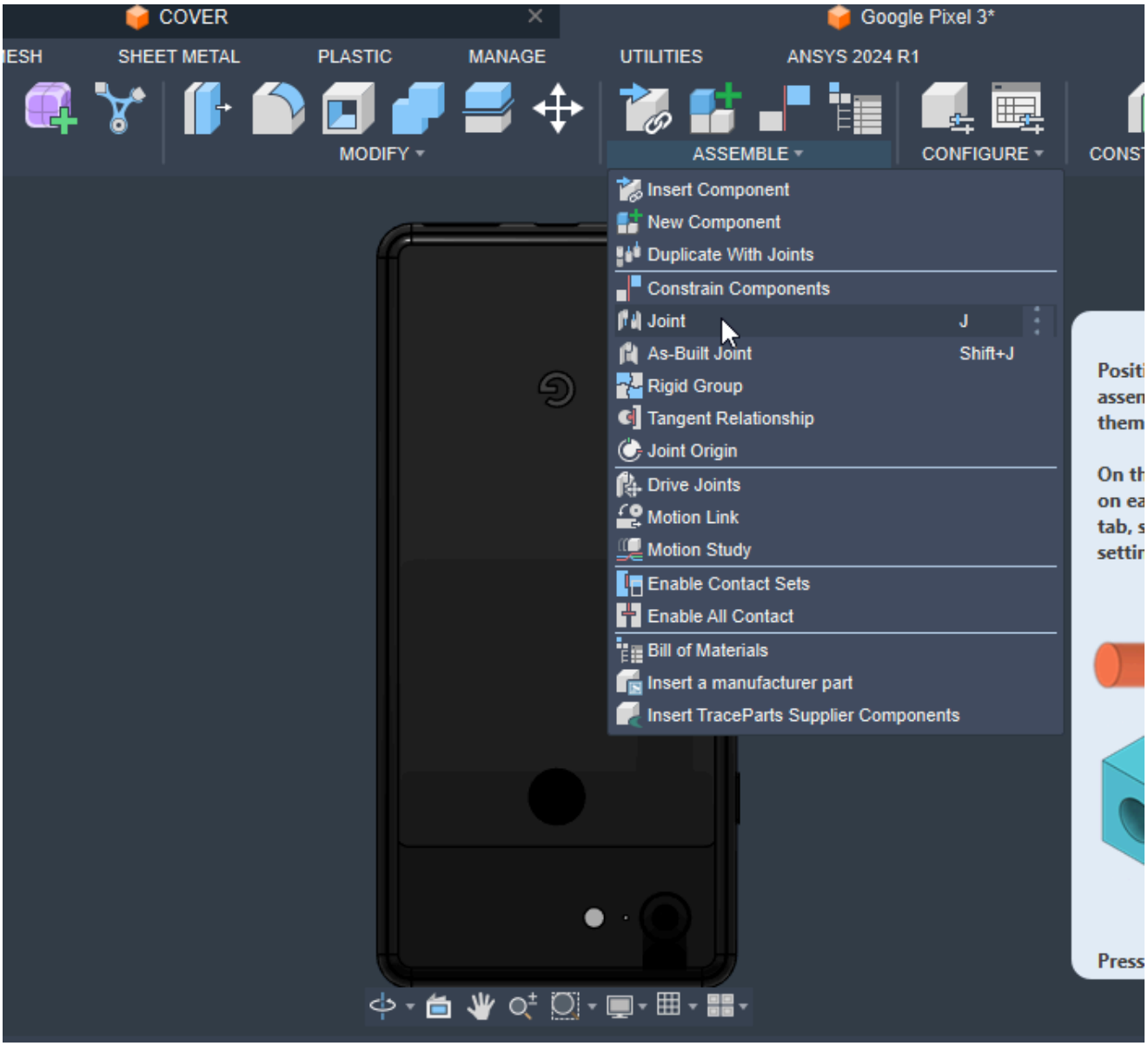
Phone Case



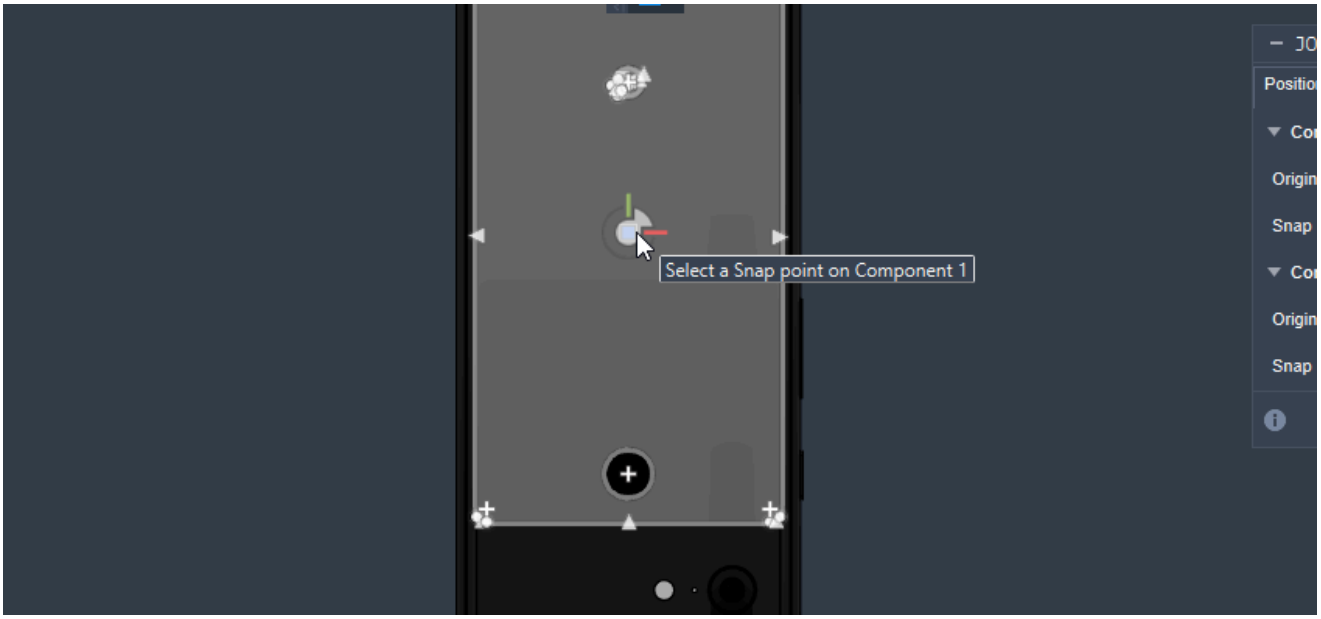
Open your STEP file using File → Open to import the phone model.



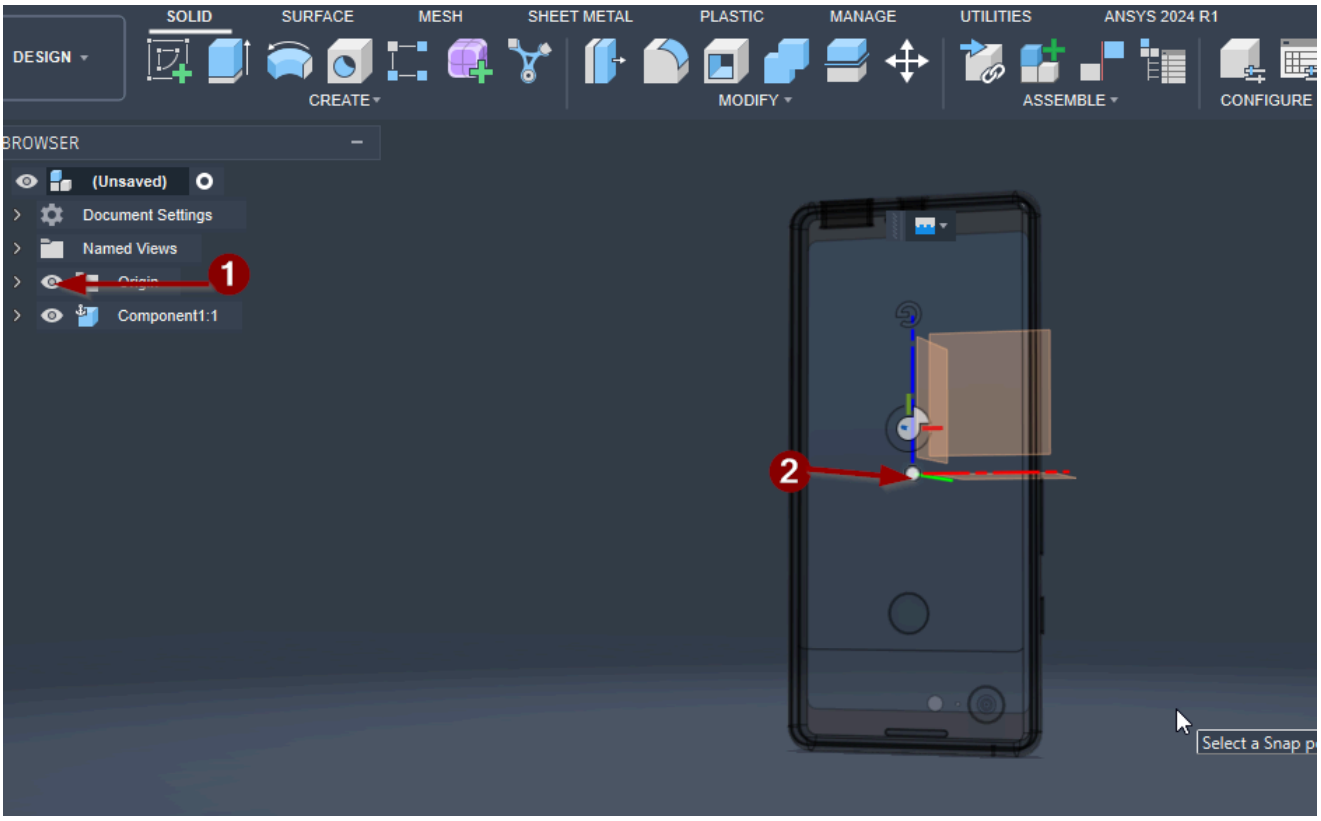
Right-click “Bodies” → Create Components from Bodies.



Select the Joint tool.

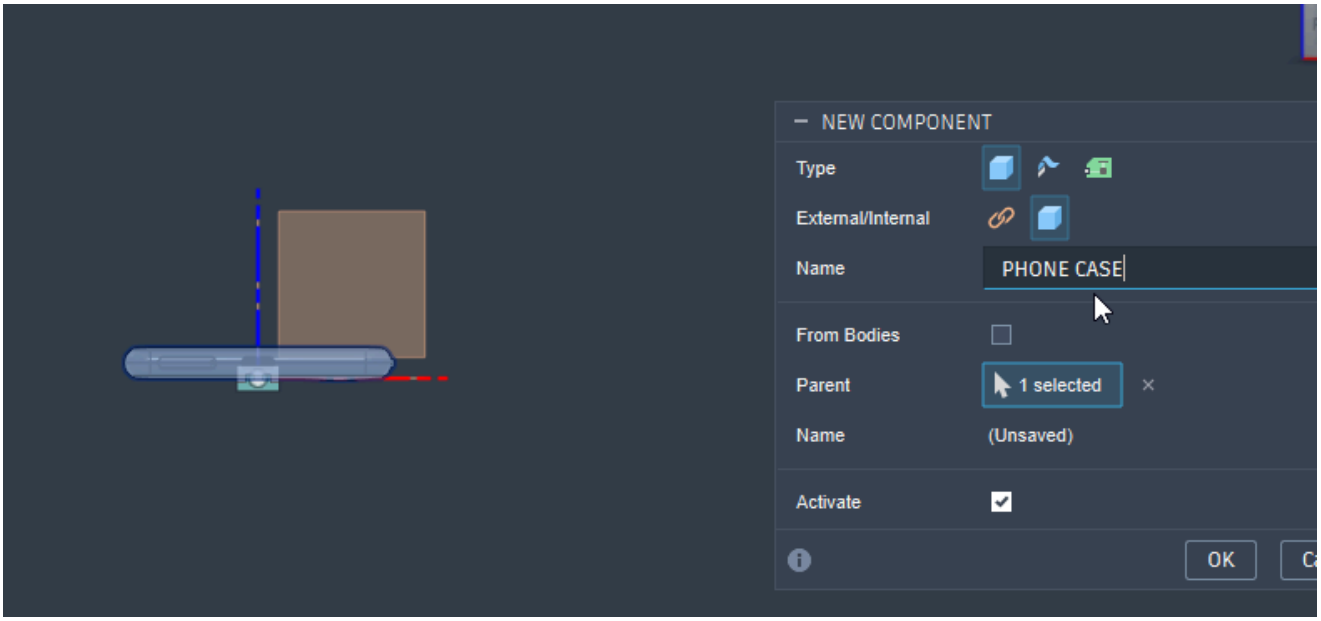


Click on this point to apply the joint.

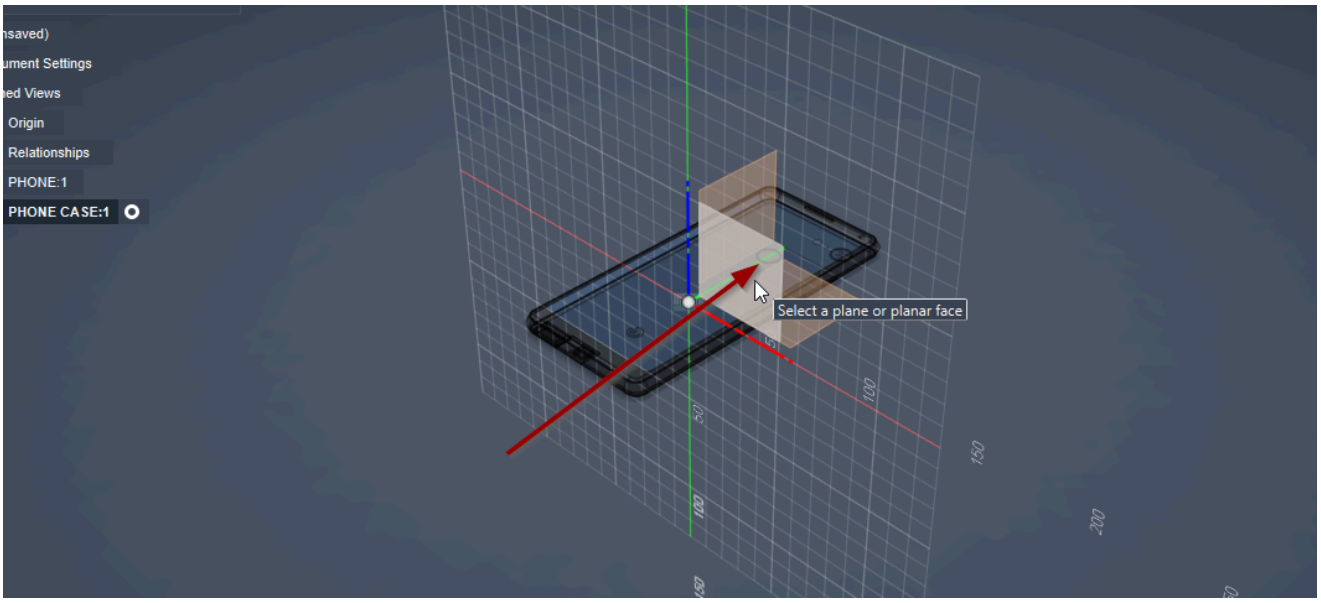


**1. Turn on “View Origin”.

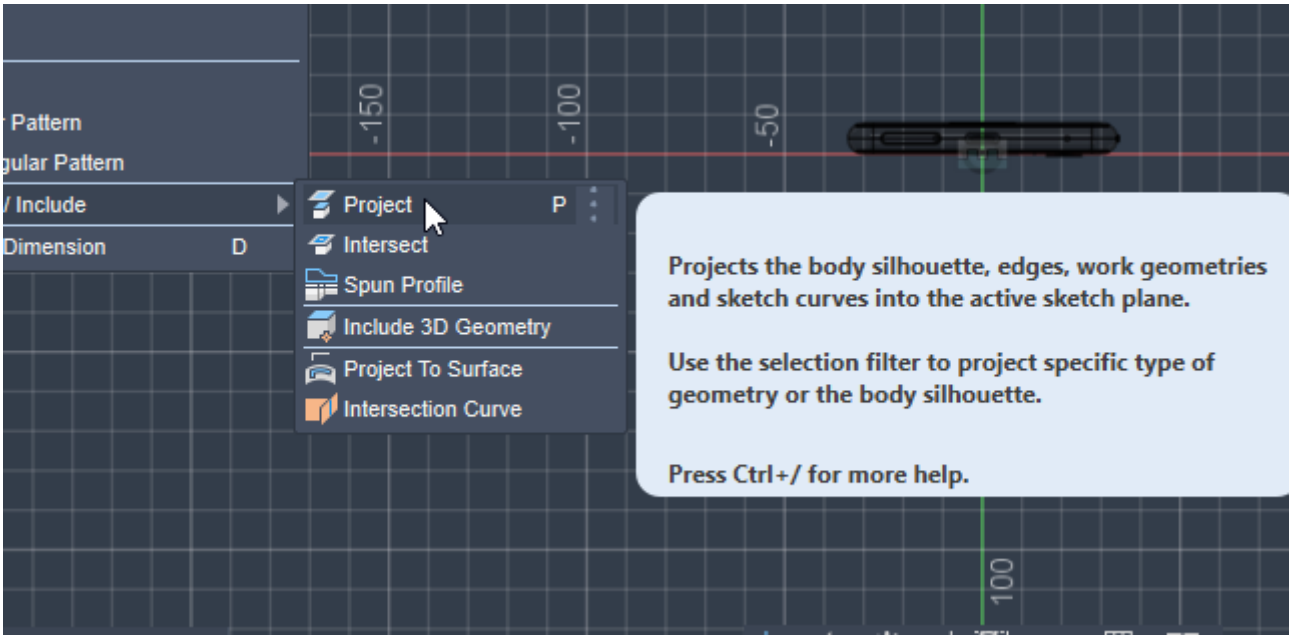
2. Select this dot to orient the phone flat.



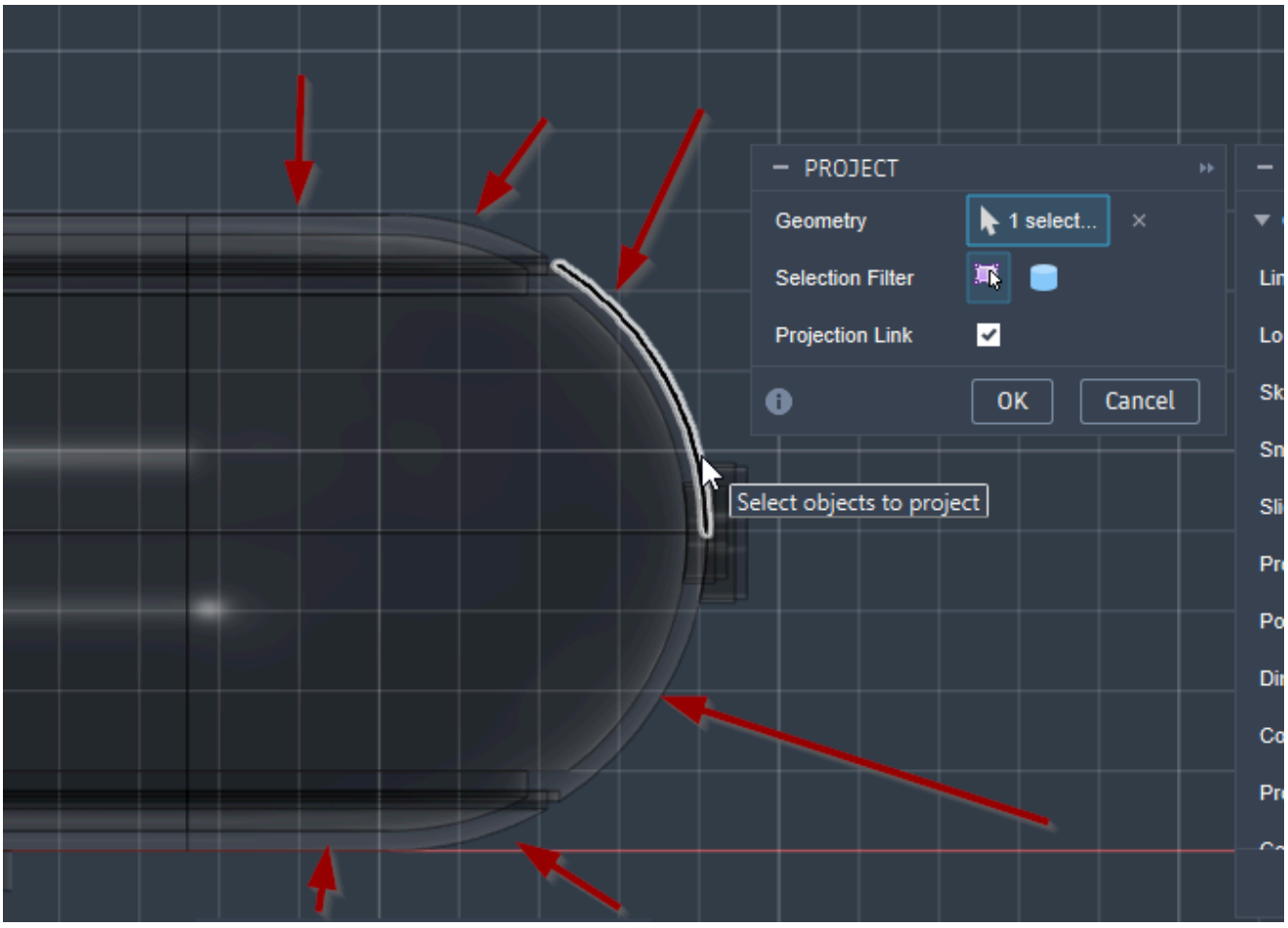
Create a new component → name it “Phone Case”.



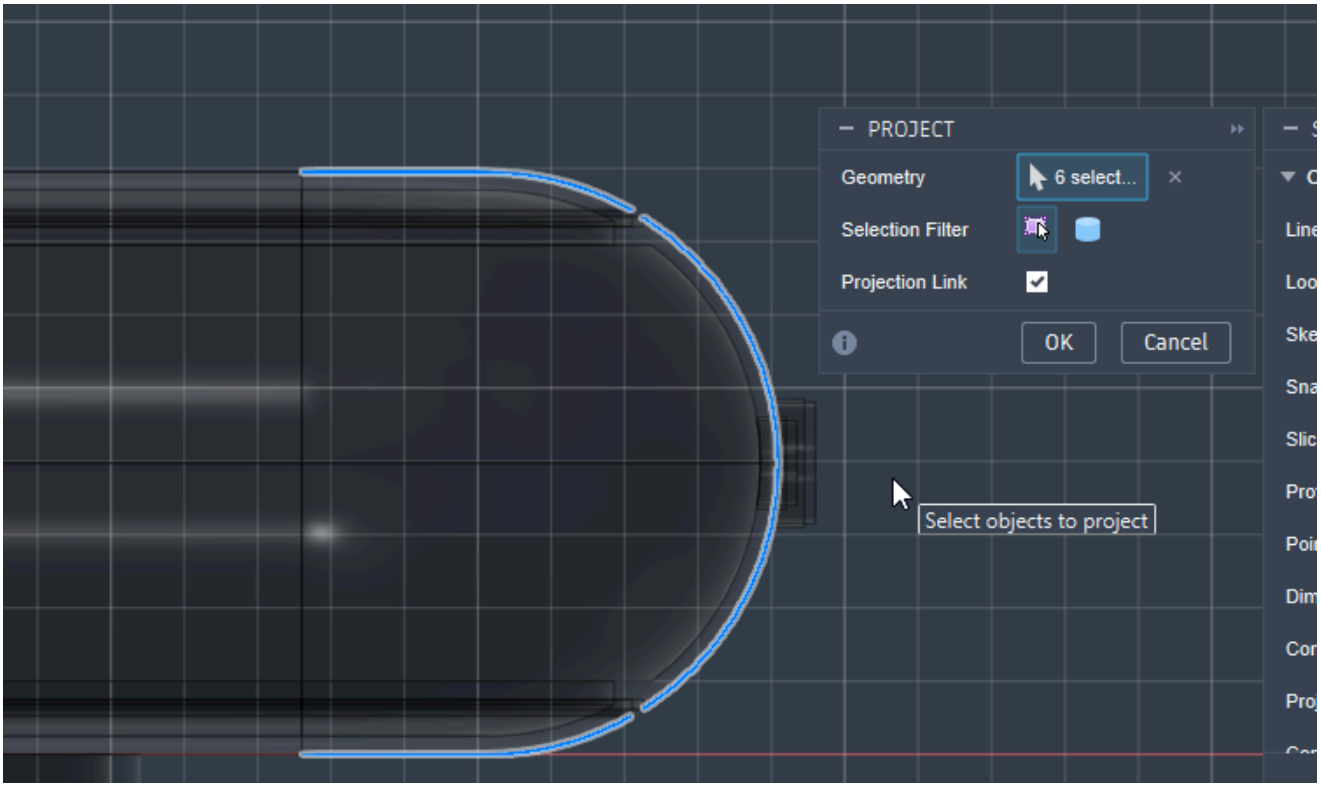
Create Sketch → choose the Origin plane.



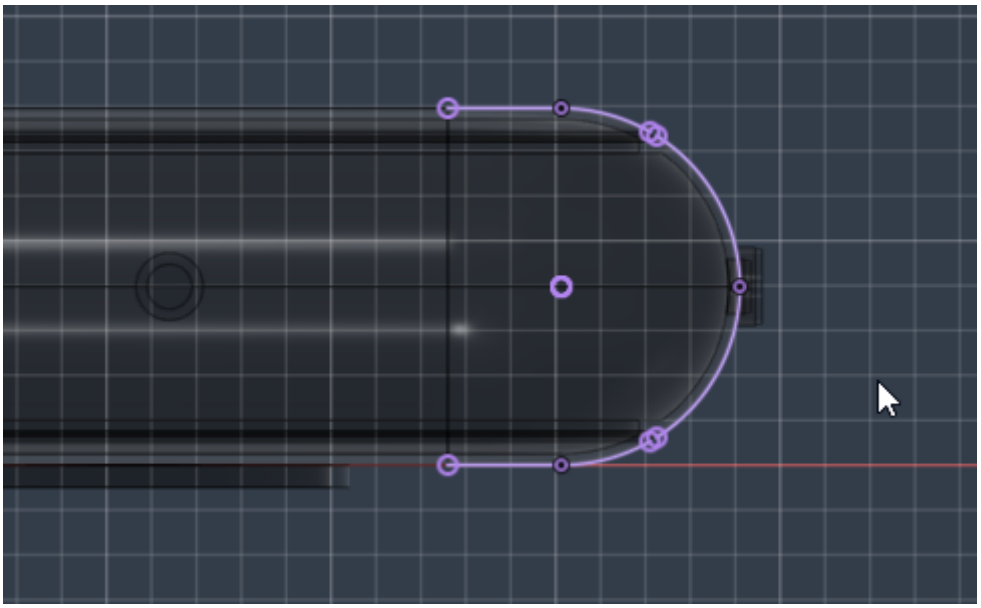
Go to Project (shortcut: P).



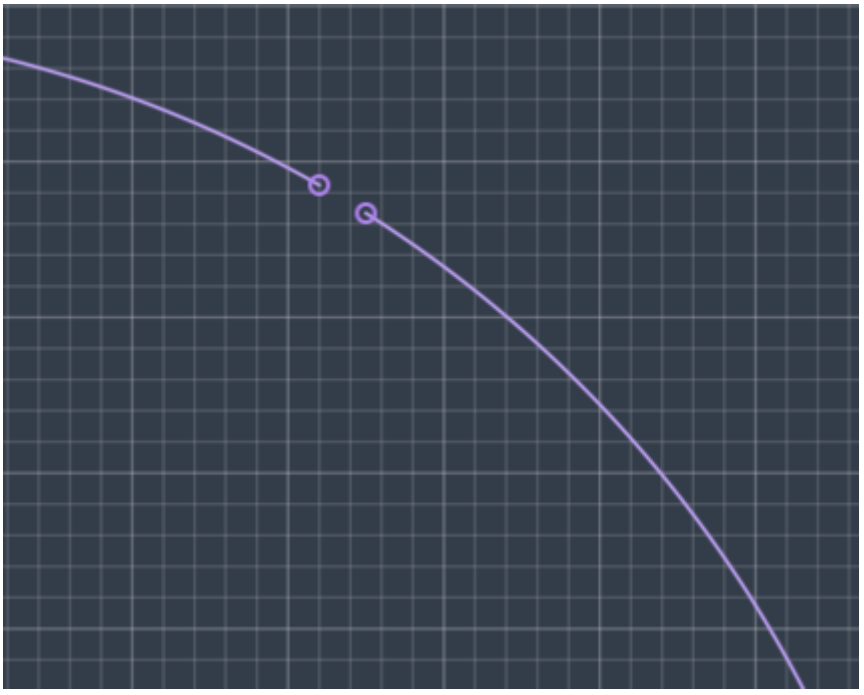
Select these outer edges of the phone one by one.



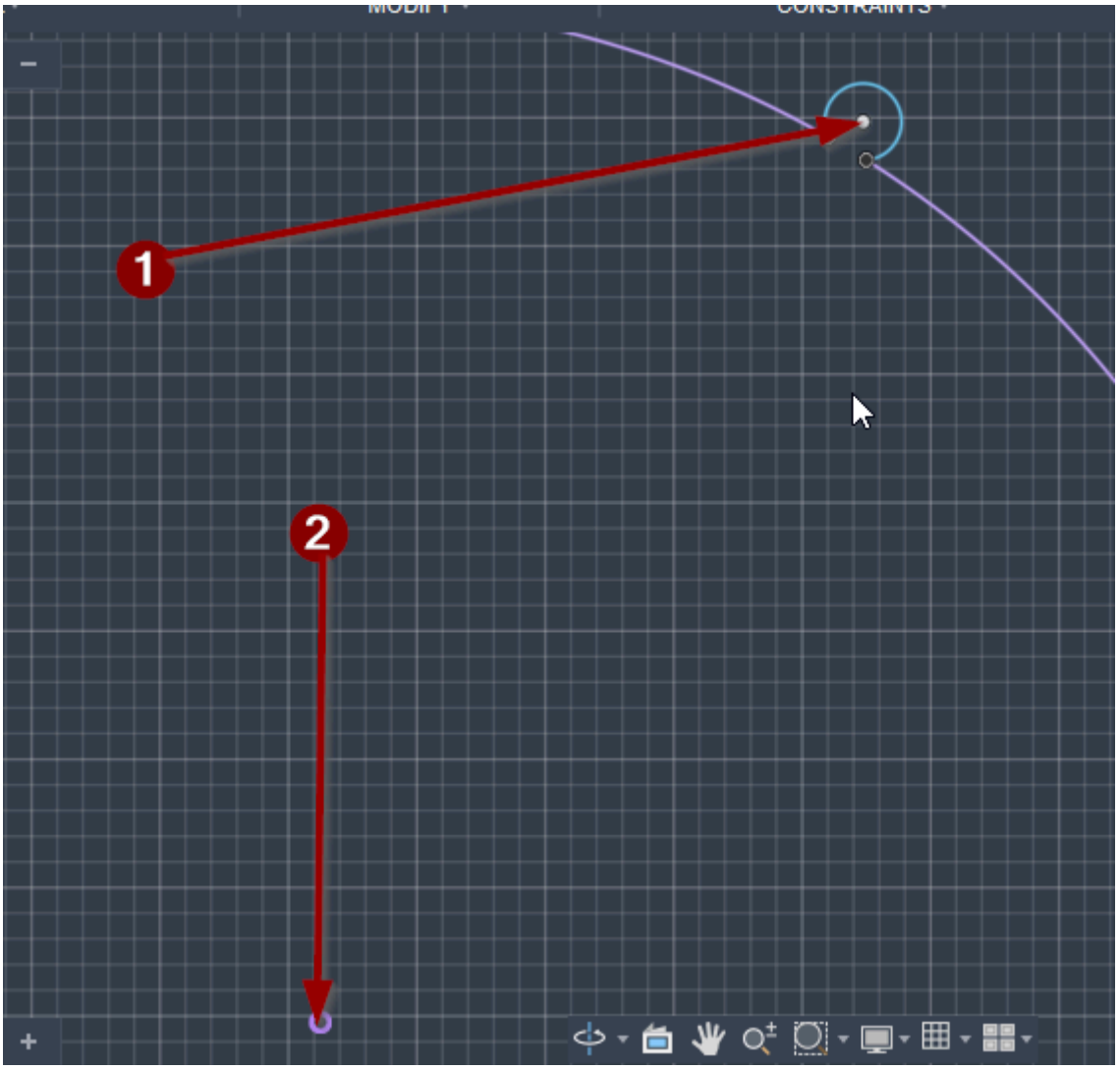
Click OK.



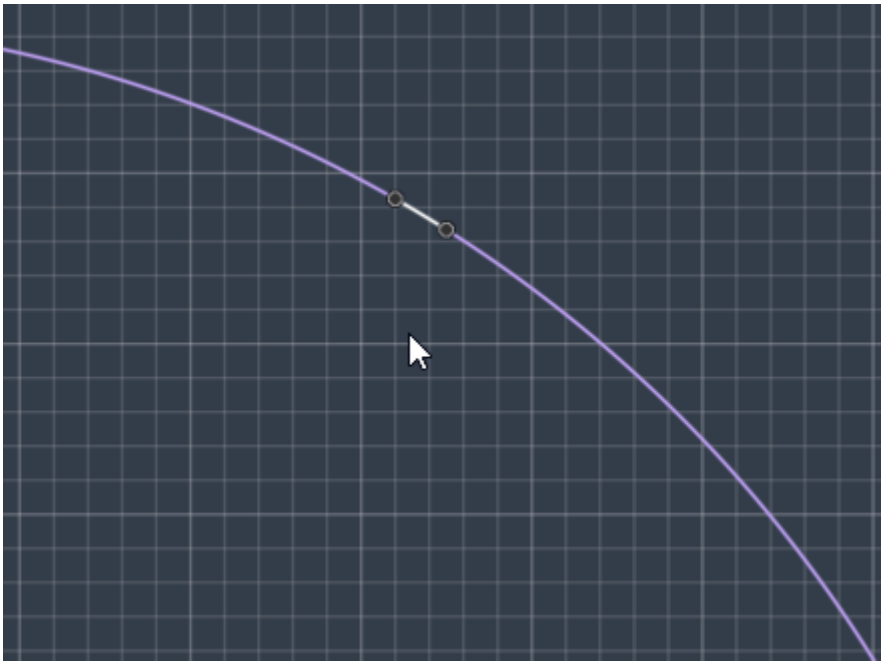
Projected result (purple lines).



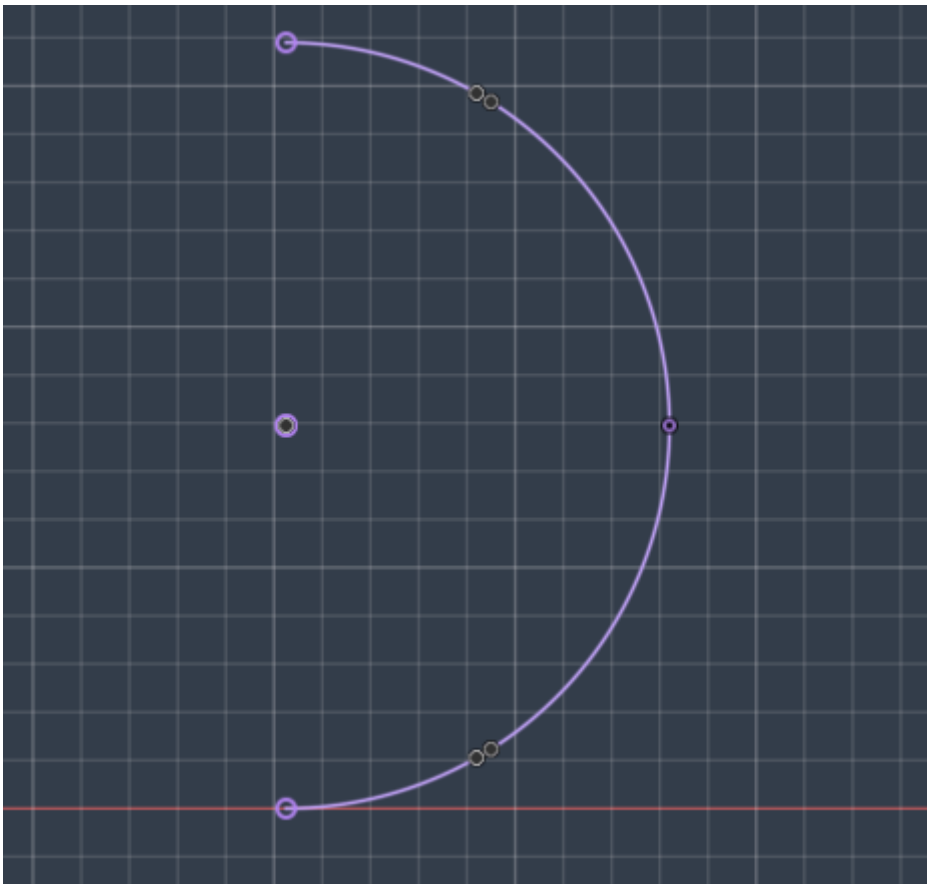
There is a gap – fill it using the 3-Point Arc.



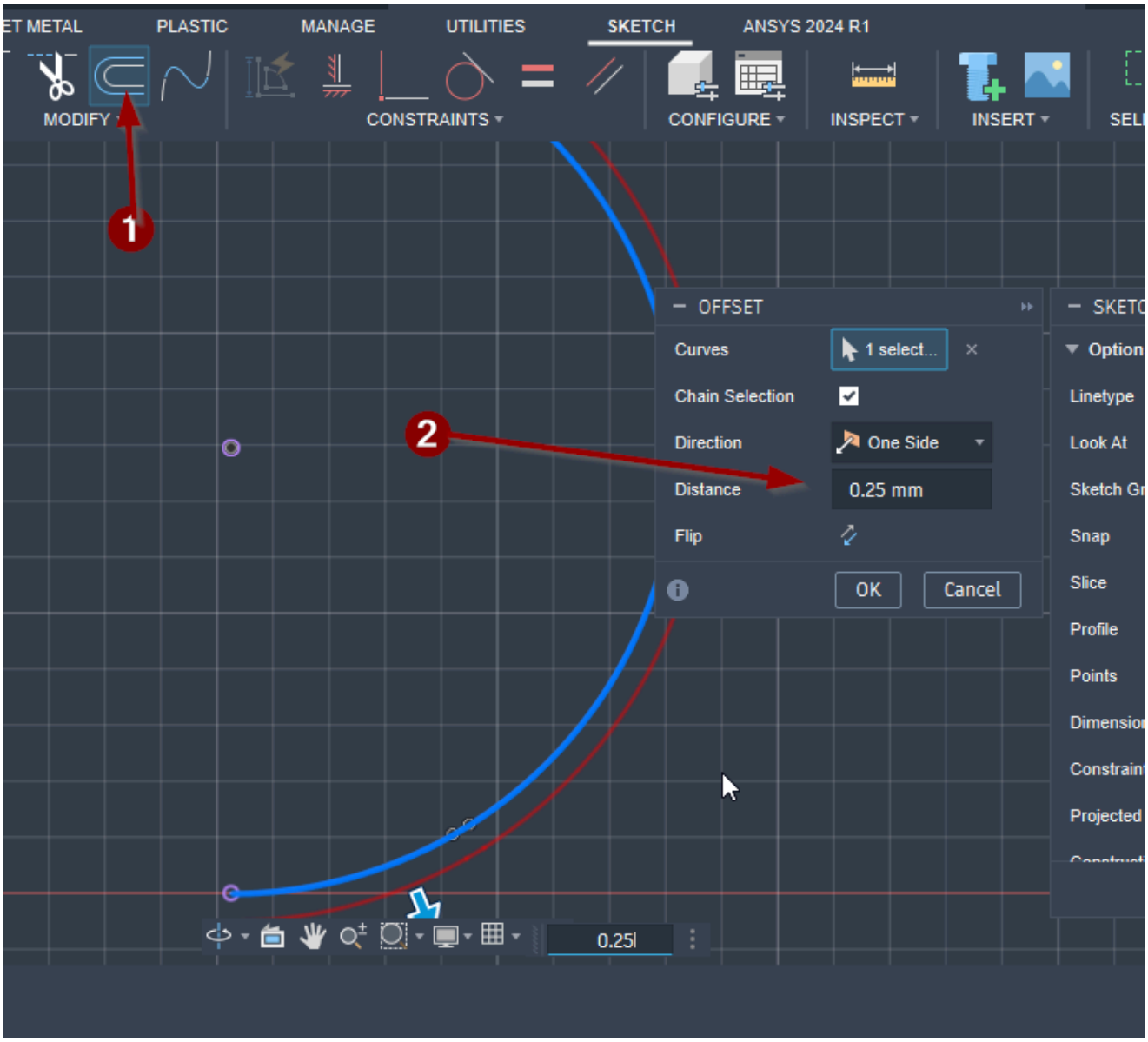
Use Coincident to snap the arc endpoints to these projected points.



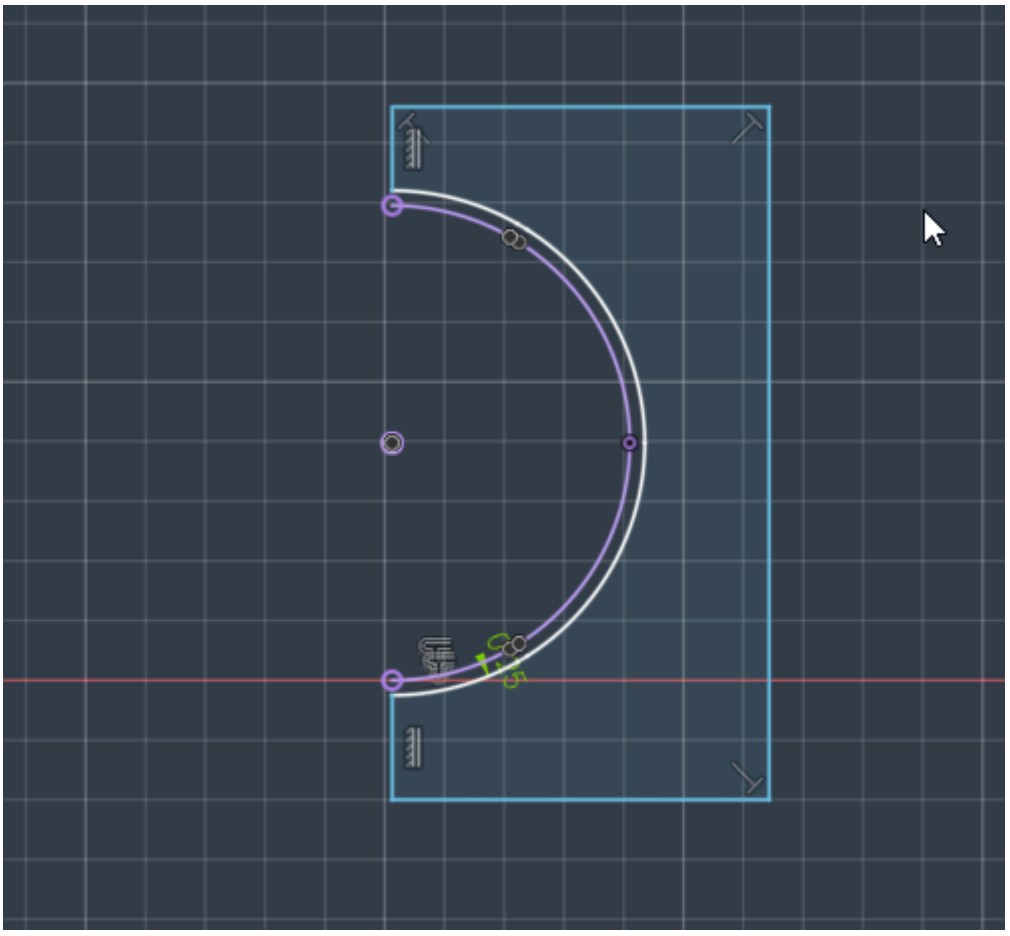
Gap fixed.



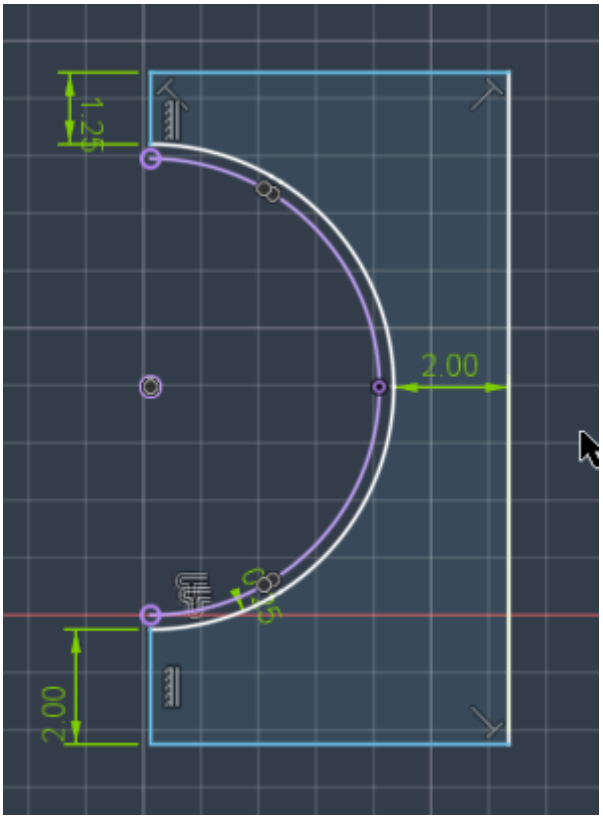
Remove any extra lines you accidentally selected.



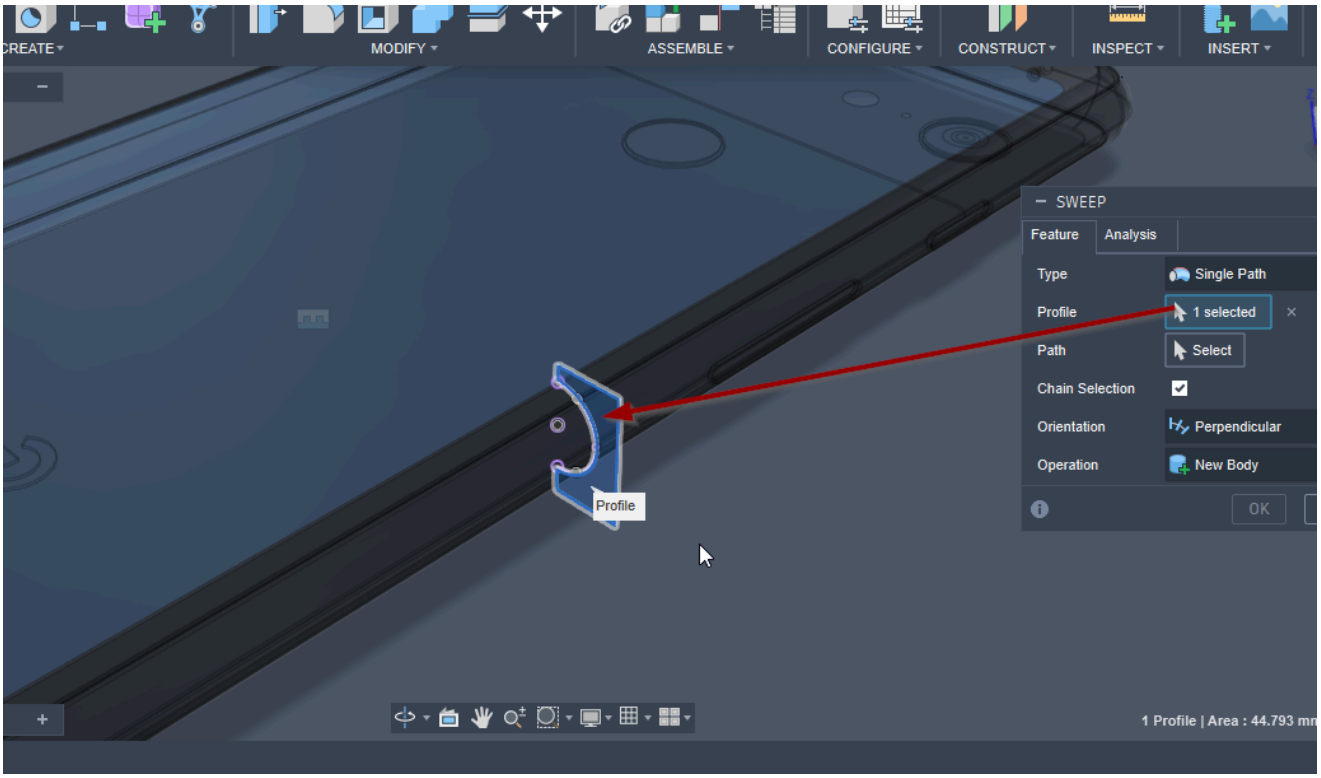
Create an Offset of 0.25 mm (creates phone-case clearance).



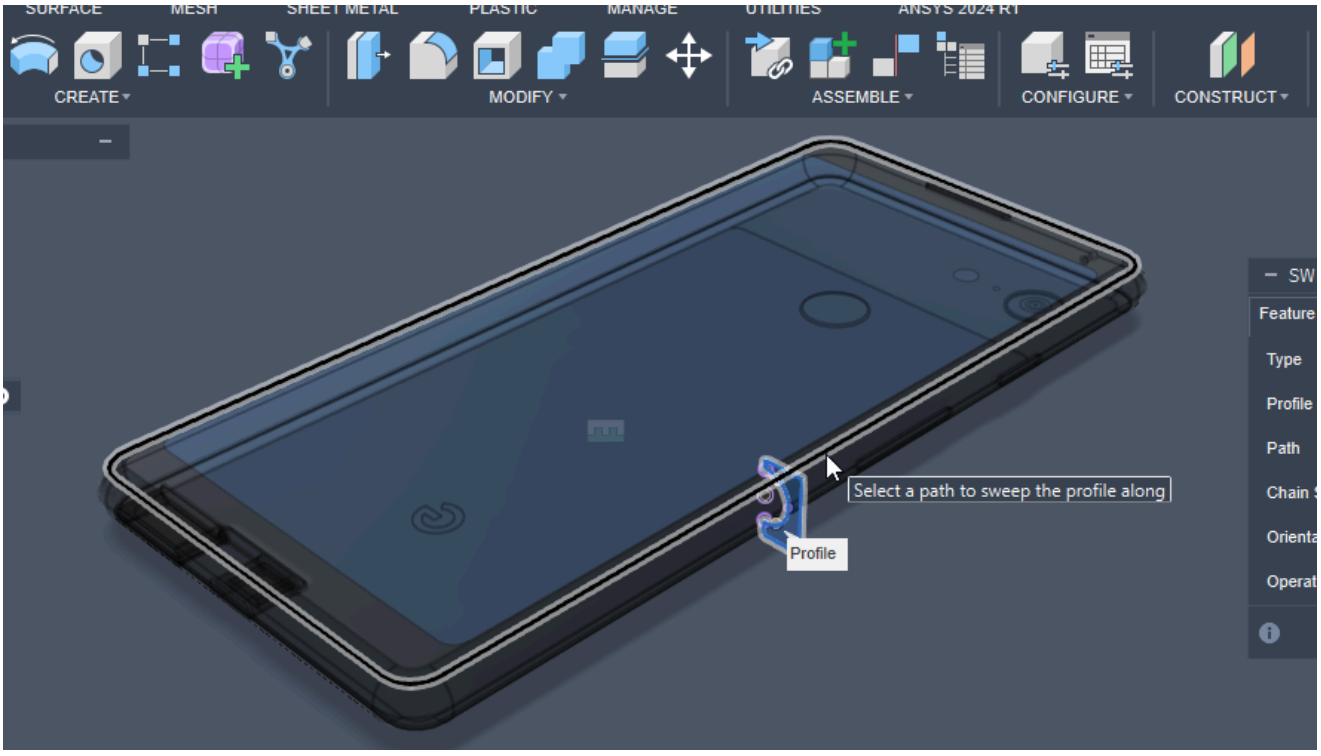
Use Line tool to create this sweep profile, then apply dimensions.



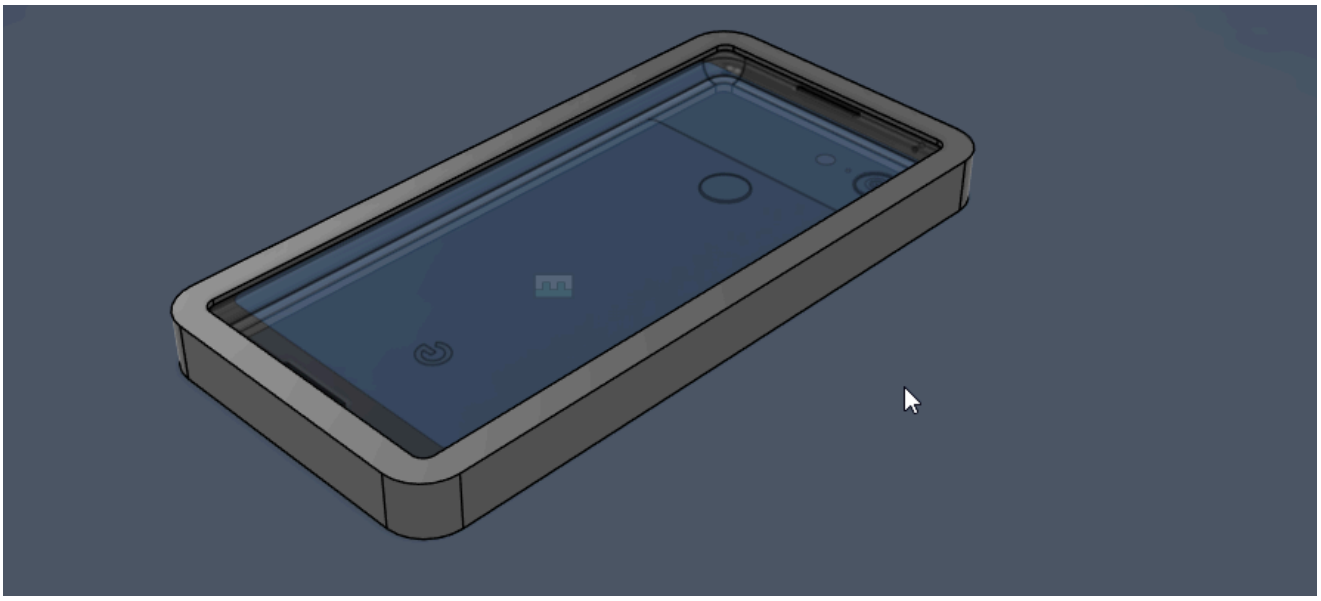
Set the dimensions exactly as shown (thickness, height, clearance).



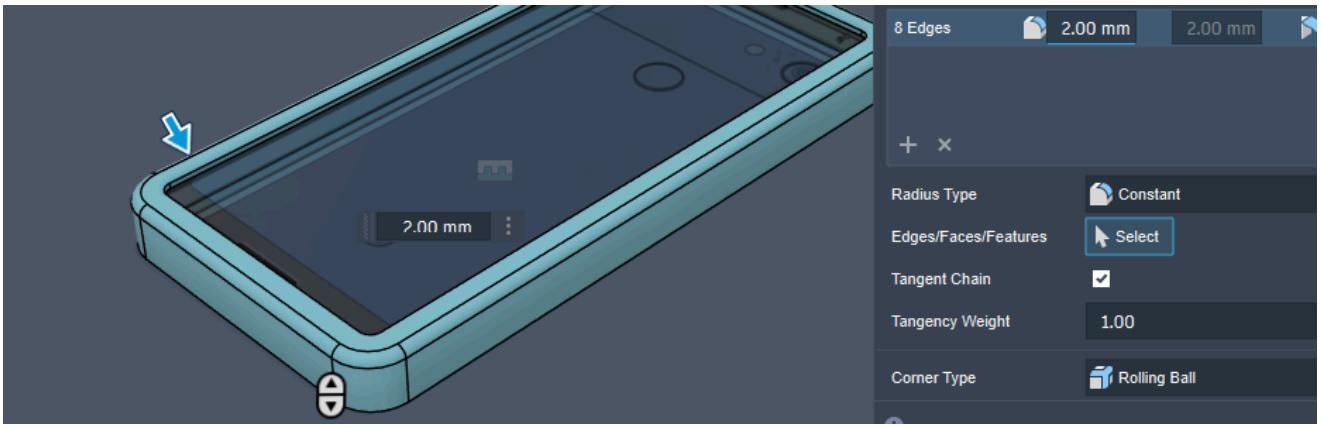
Go to Sweep → select this profile.



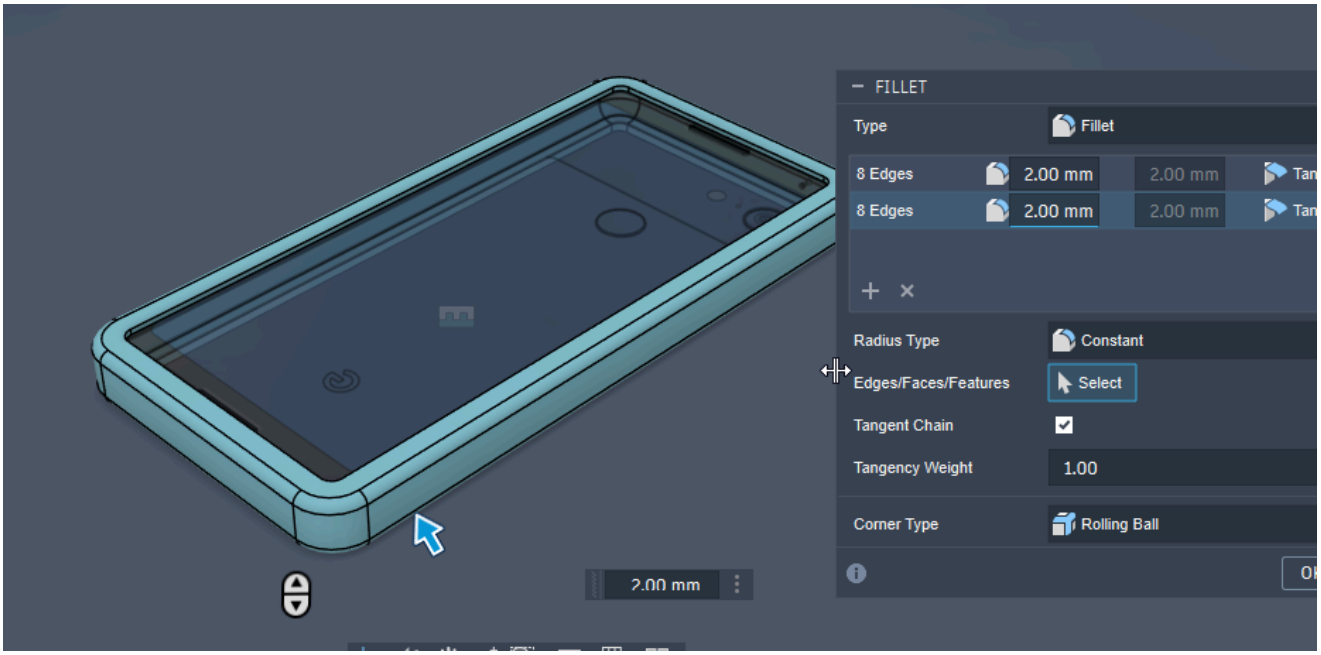
Select this full outer edge of the phone as the sweep path.



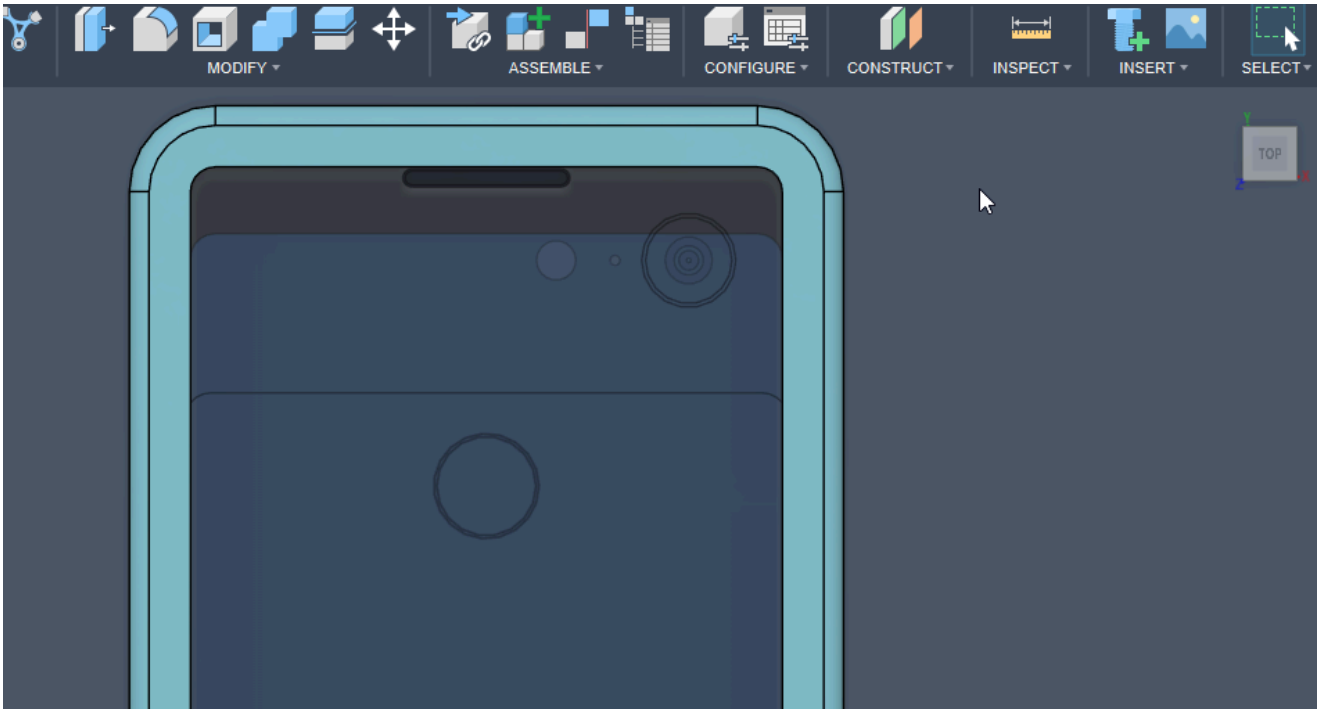
Swept case frame complete.



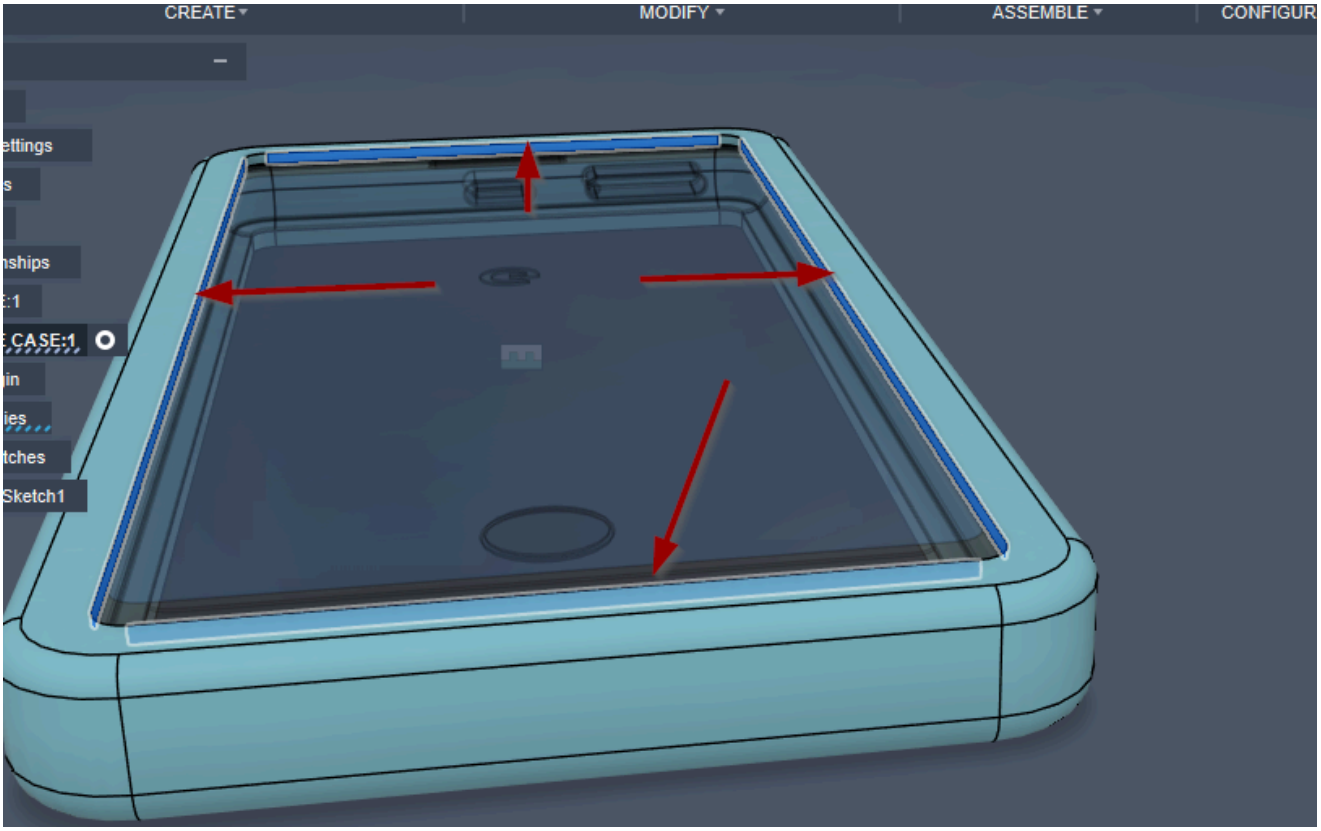
Add 2 mm fillet.



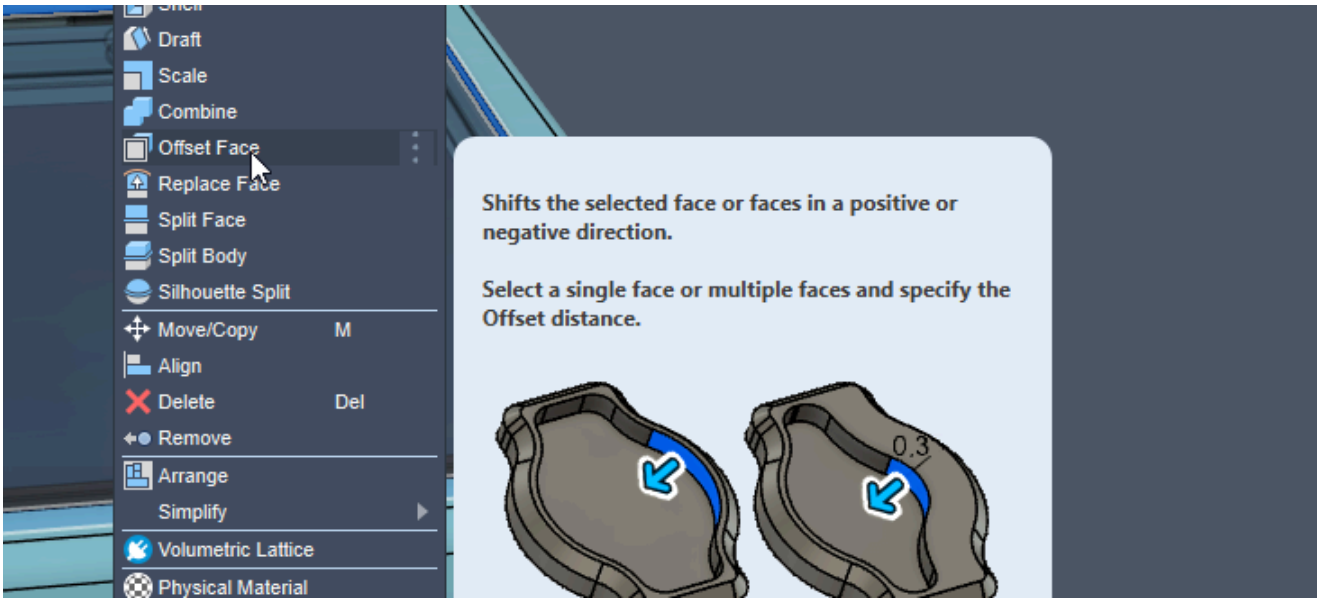
Apply 2 mm fillet to both upper and lower surfaces.



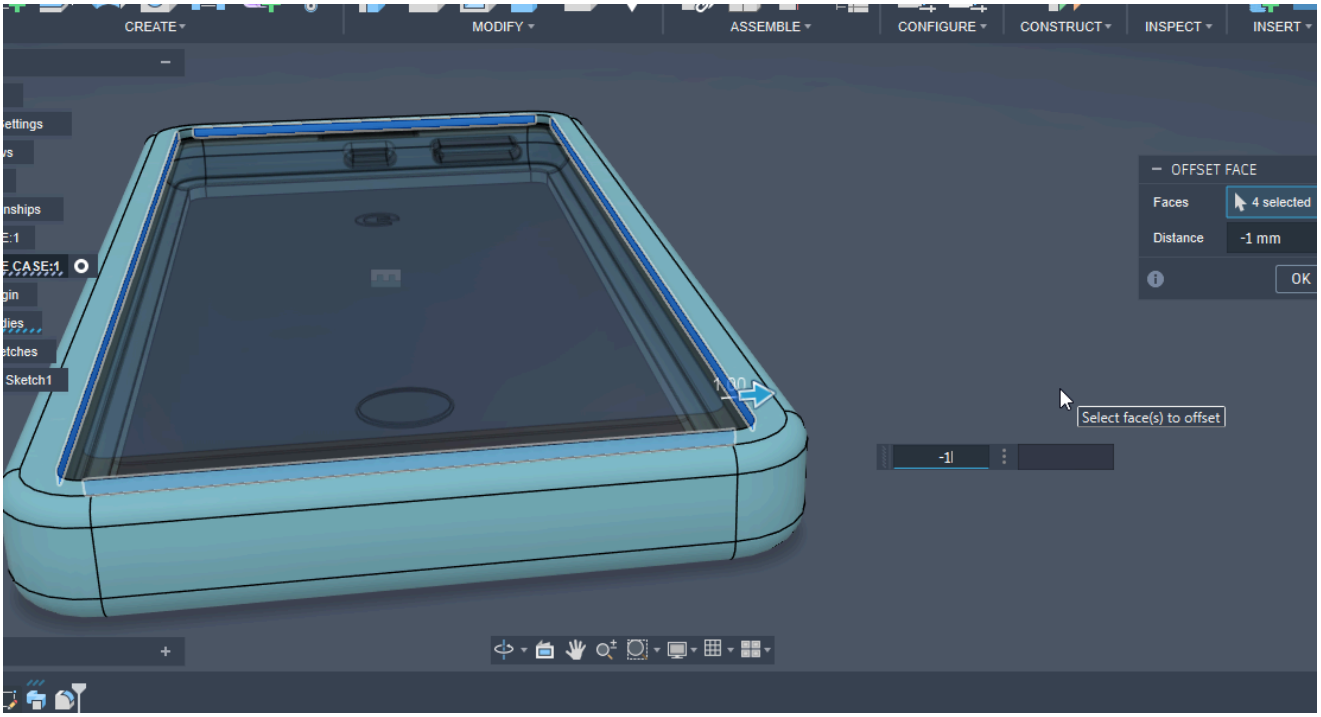
Case covers the screen → use Offset Face to move the inner lip back.



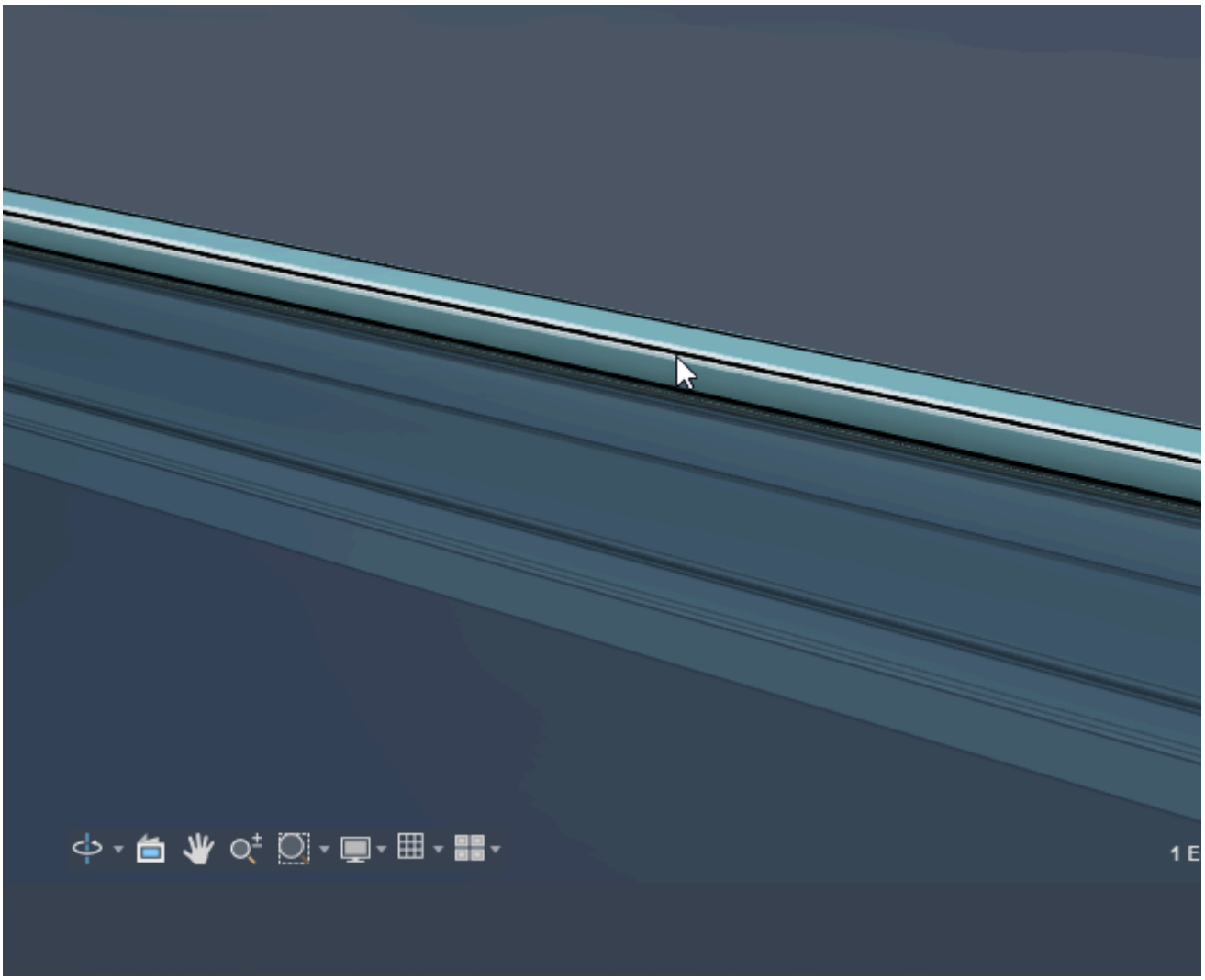
Select these inner faces.



Choose Offset Face.



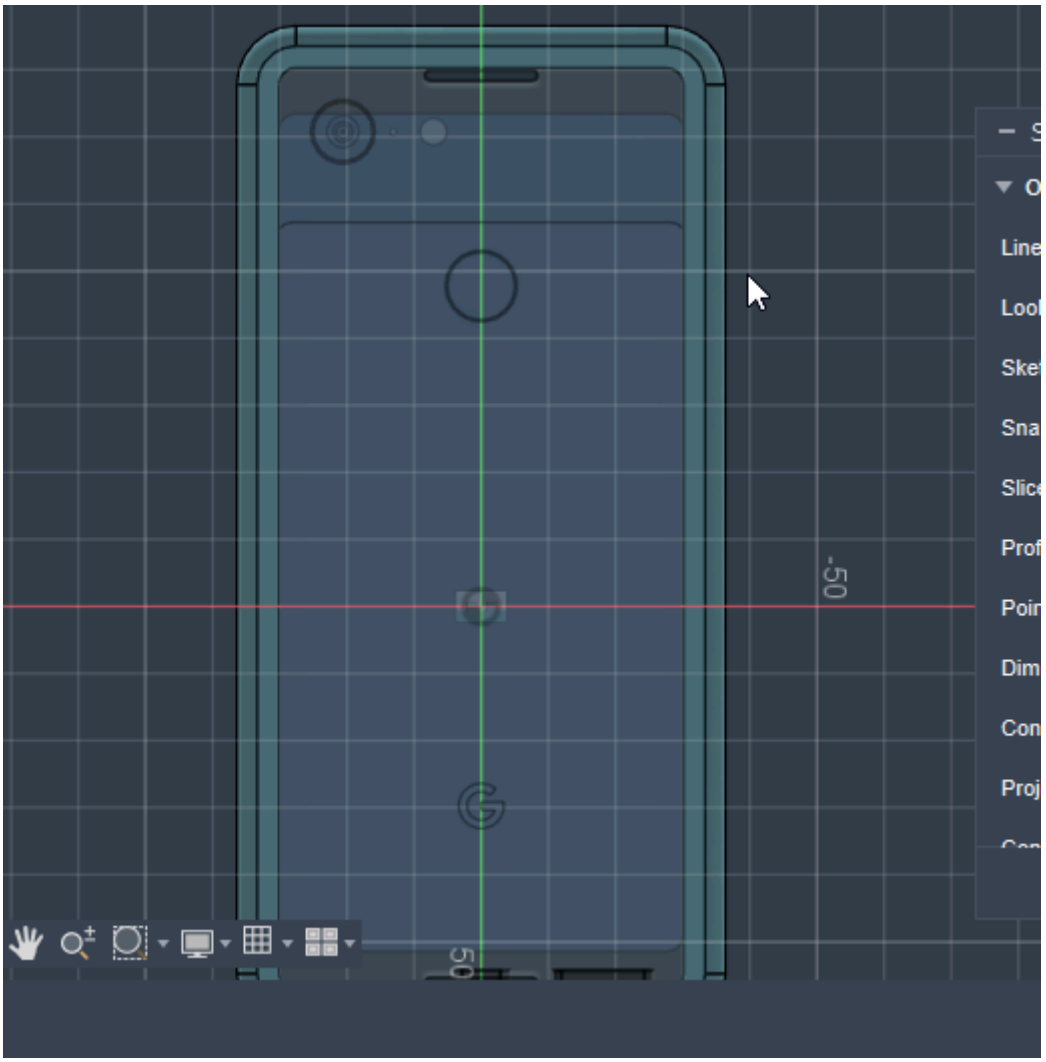
Move the faces back by –1 mm.



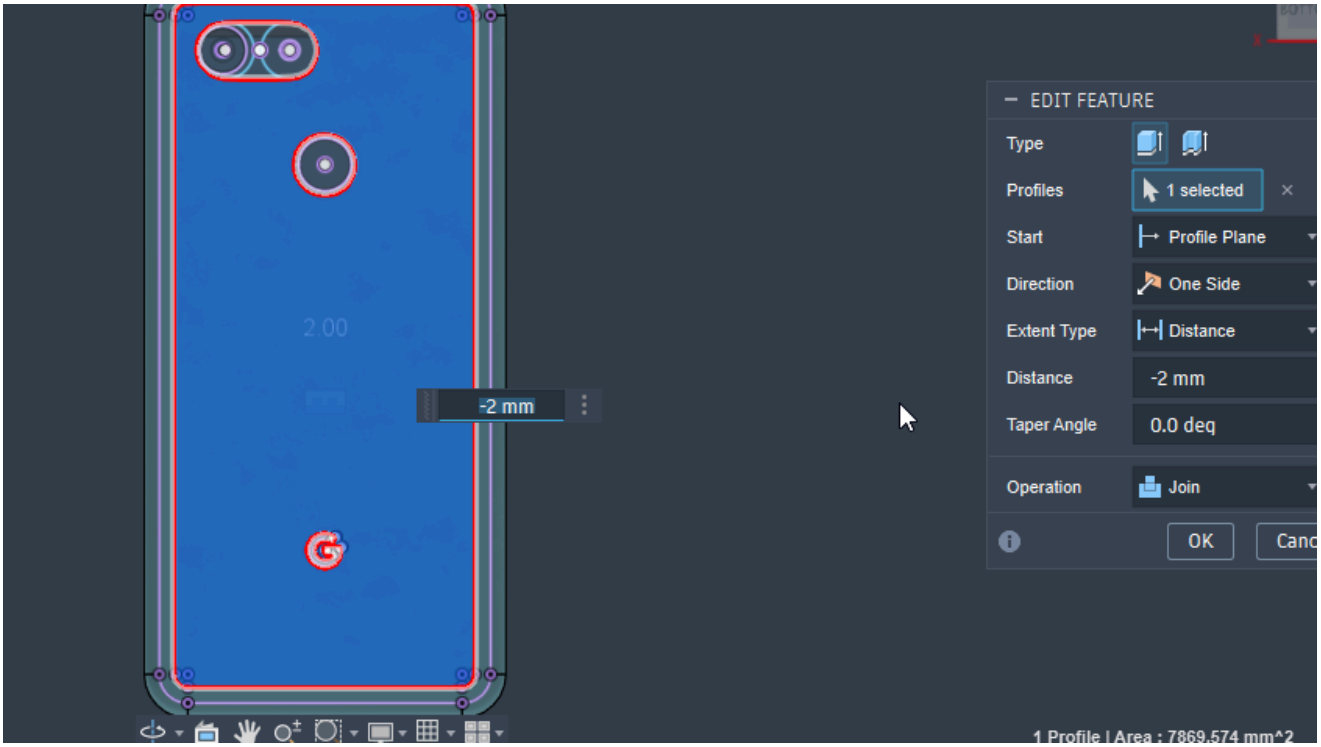
Select this top edge for Chamfer.



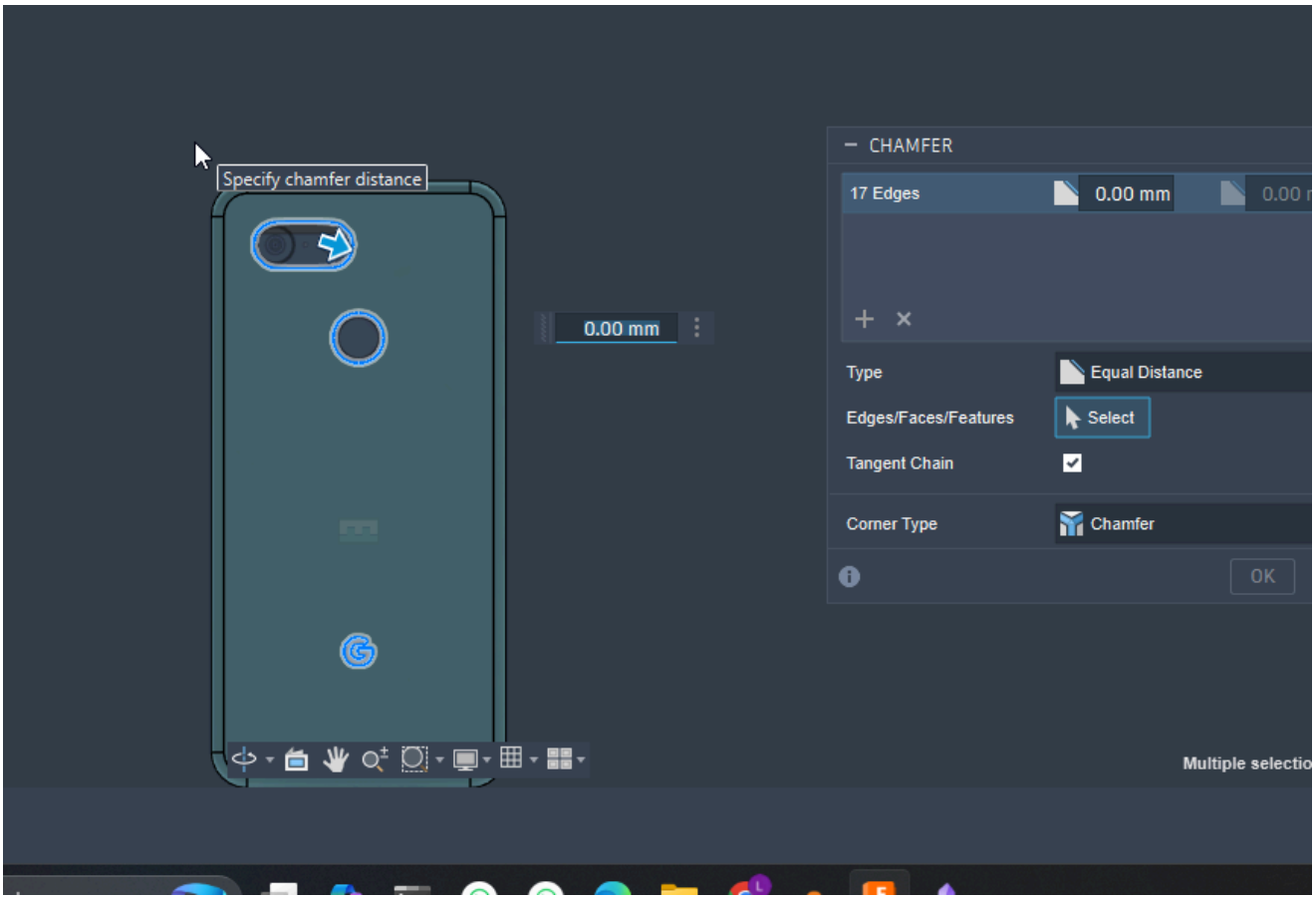
Chamfer applied (clean top edge).



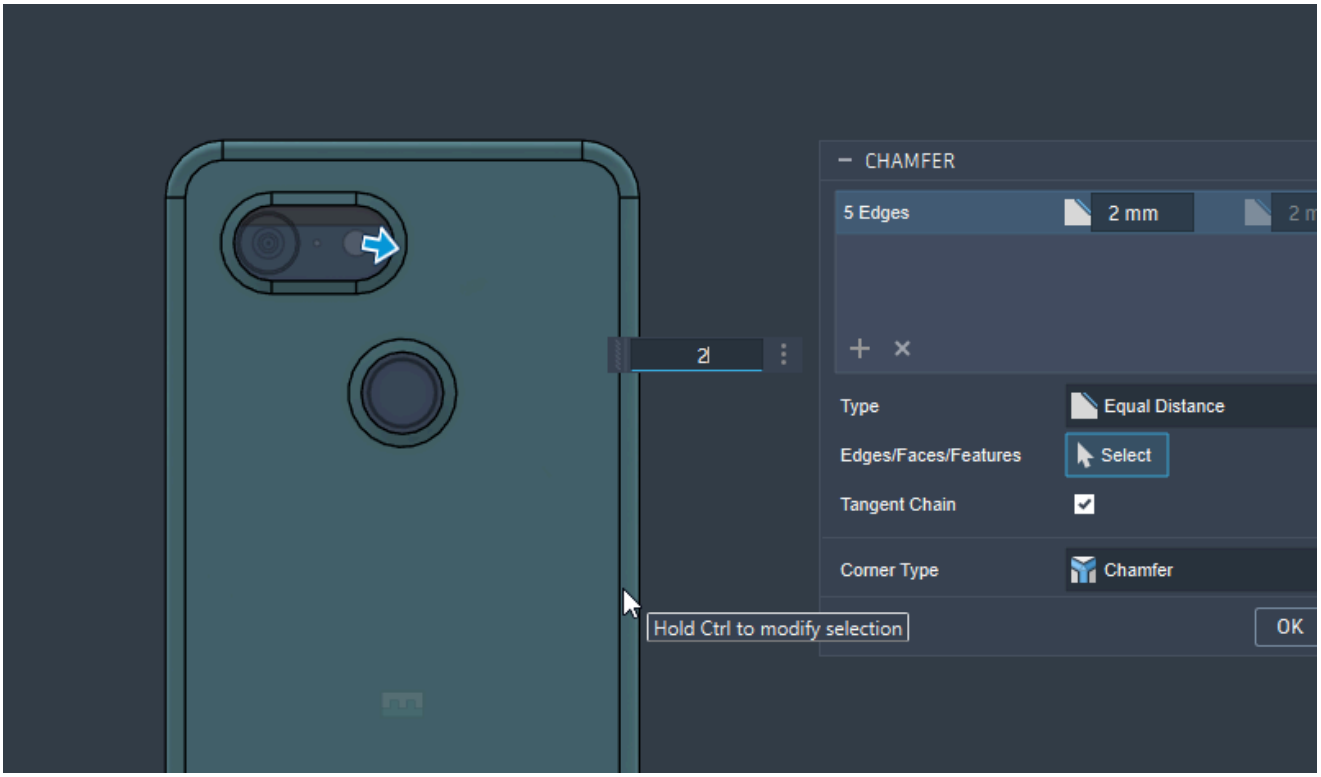
Create Sketch on back face.



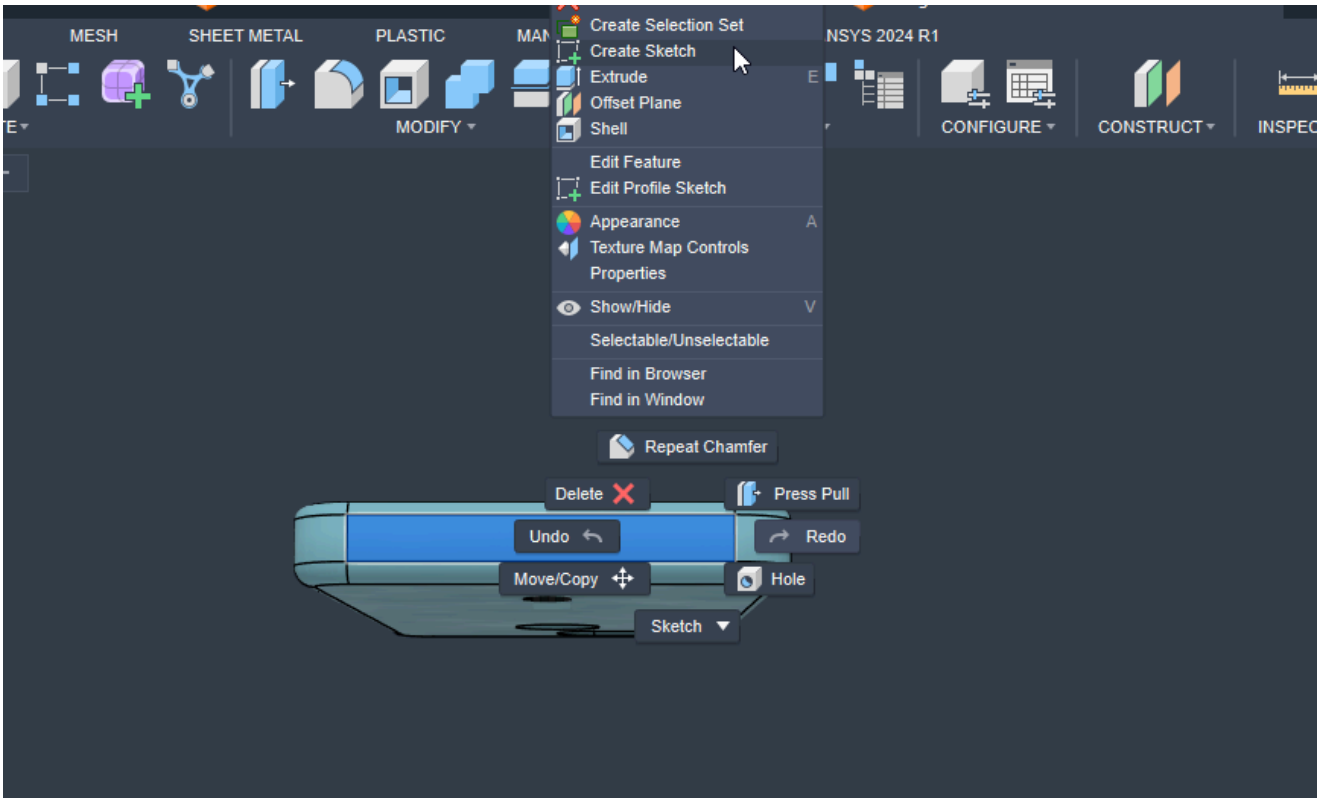
Extrude –2 mm to cut the camera hole.



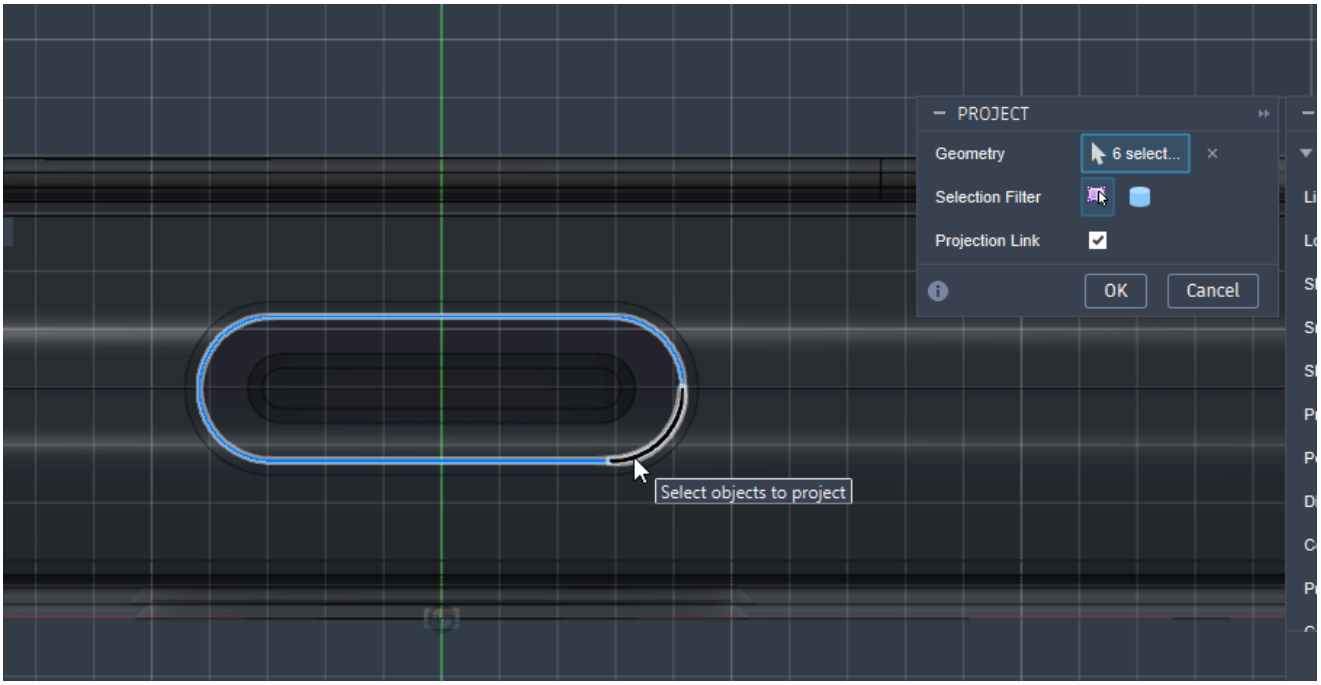
Now add Chamfer.



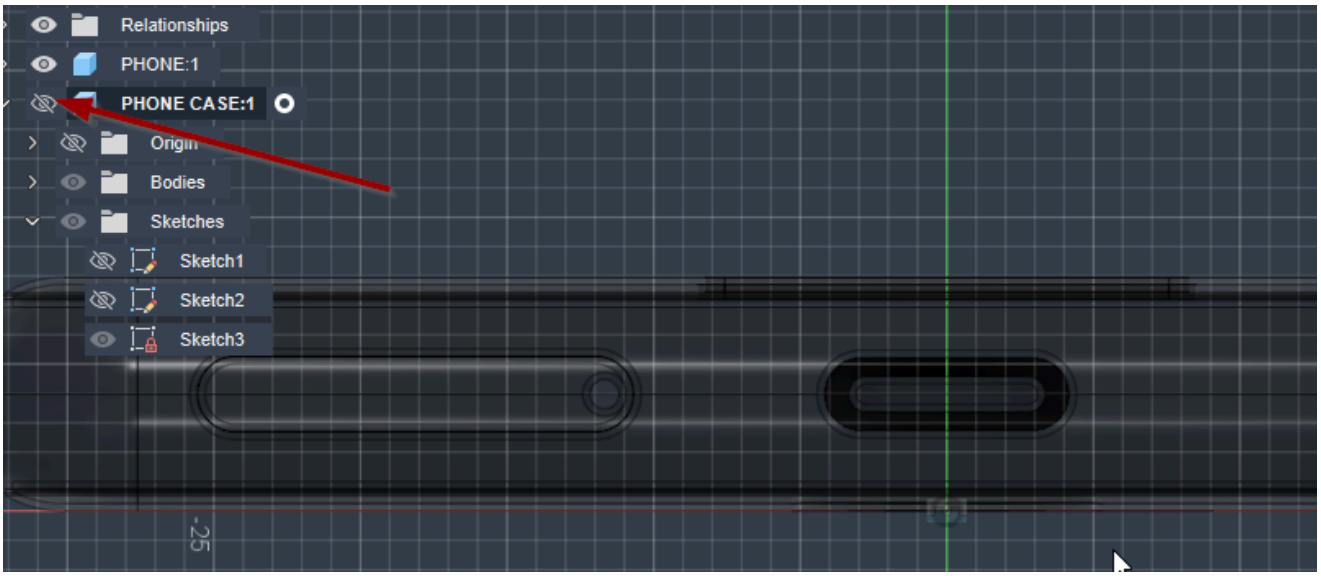
Chamfer the back cutout with the shown values.



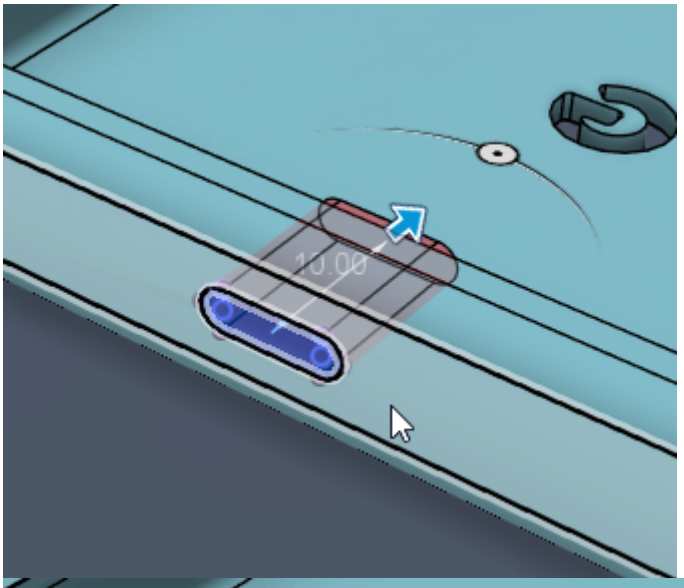
Time to create spaces for buttons & charging port.

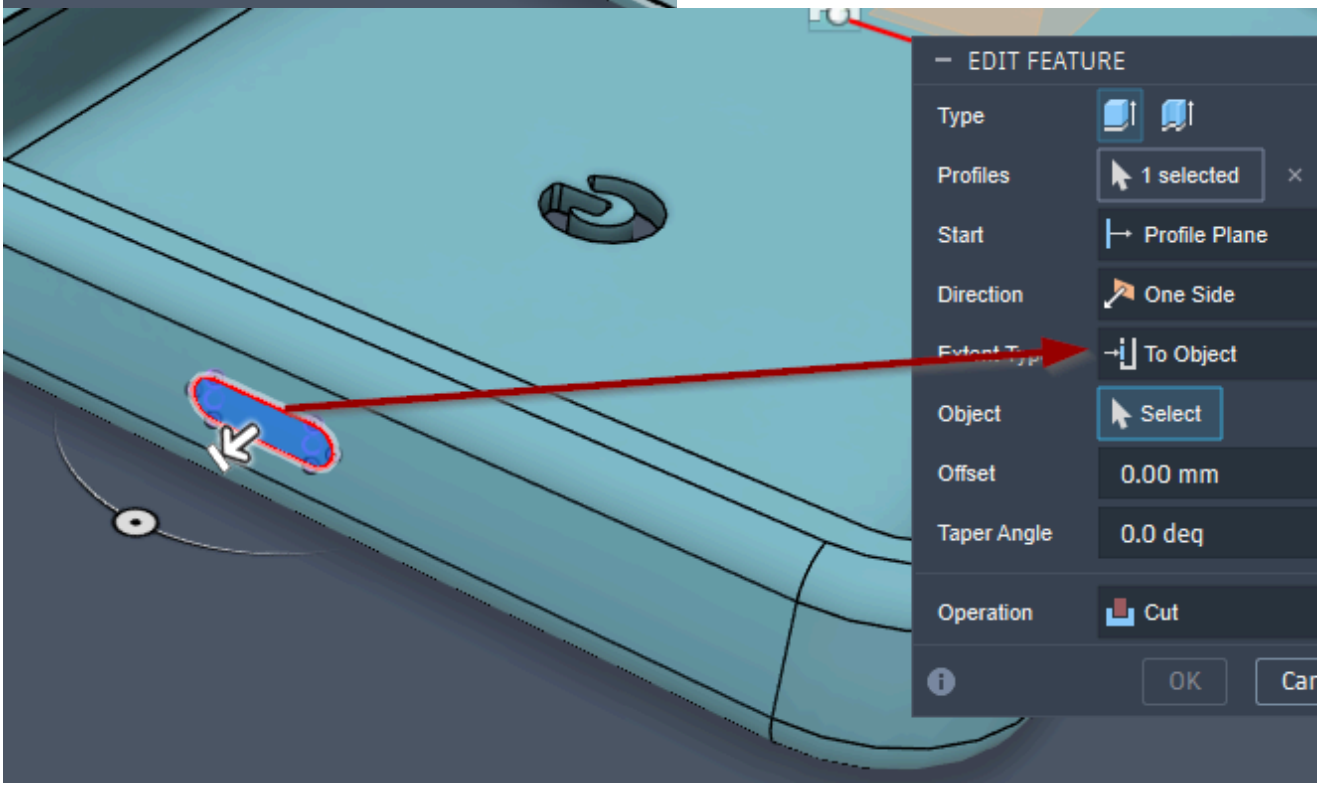


Project edges of openings using (P).

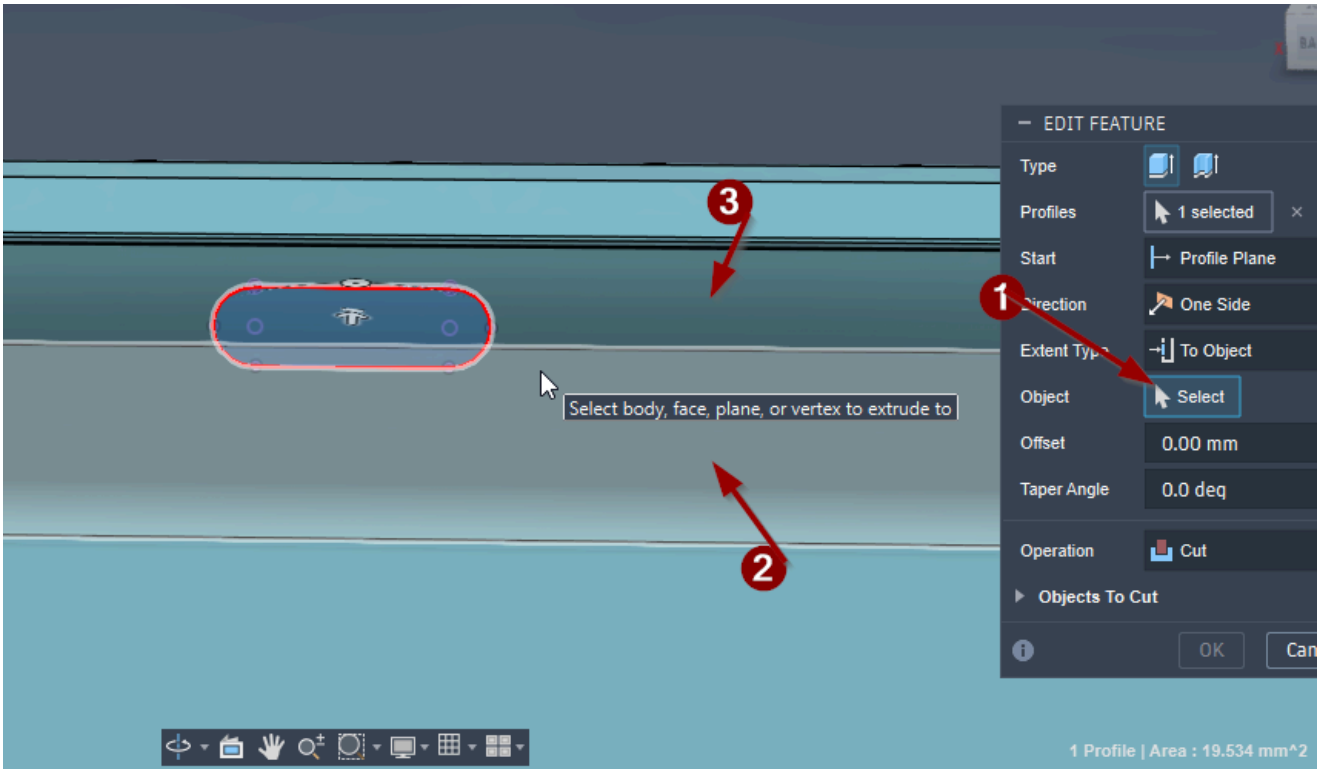


Unhide the phone case → view projected outlines clearly.

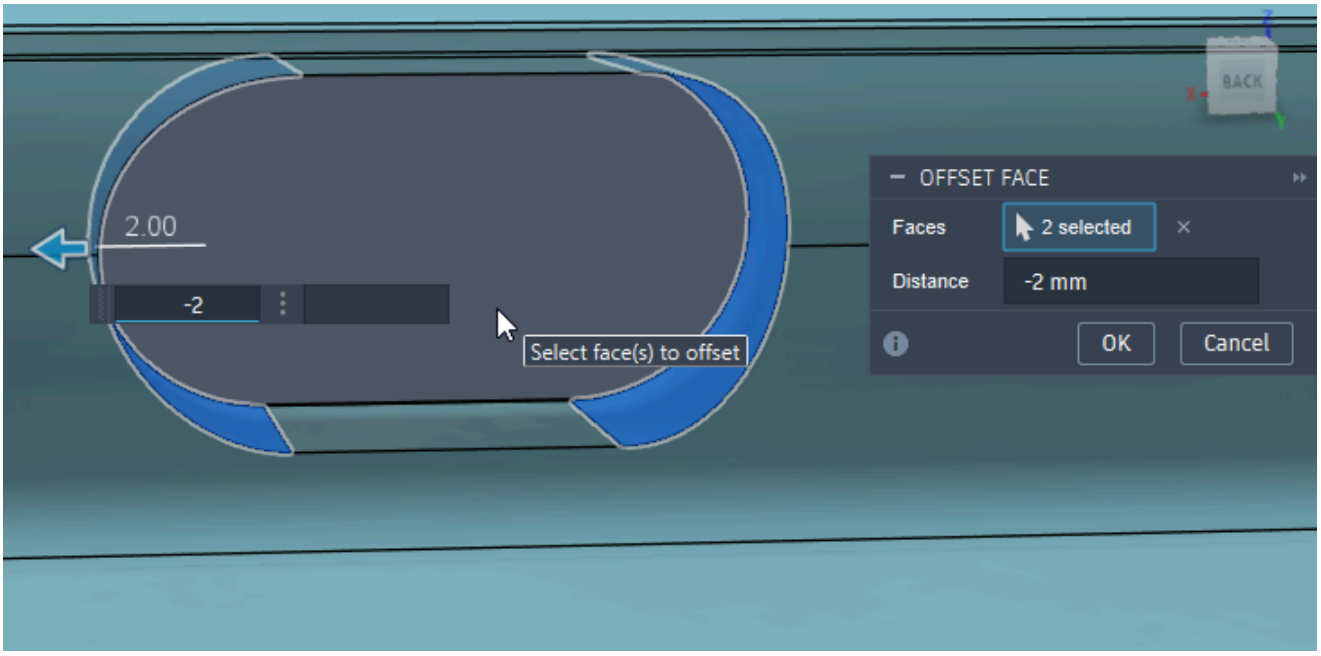




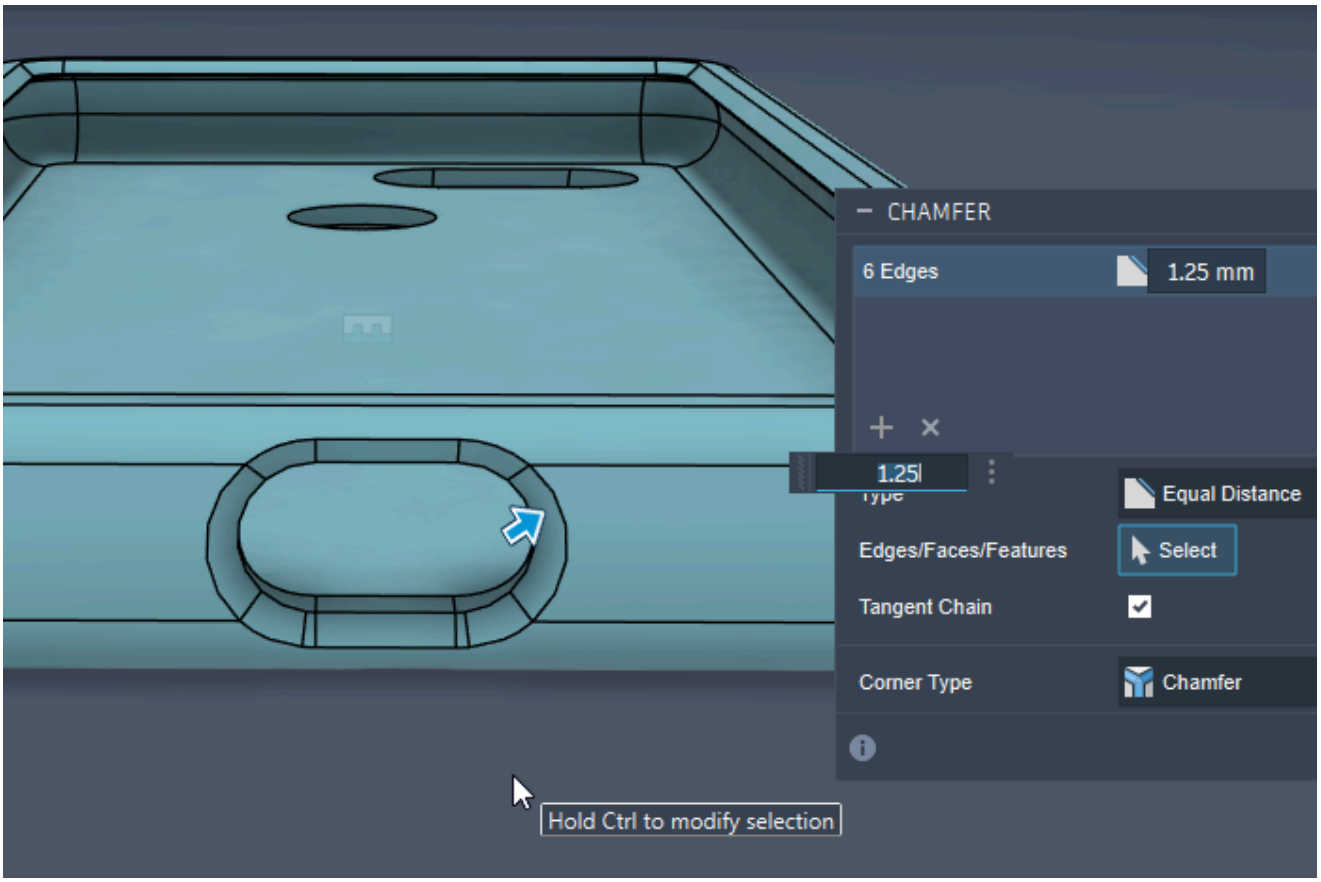
Make sure your projections and sketch lines are correct and closed.



Select one of these sketches to cut the port/hole.



Use Offset Face (–2 mm) for proper charging-port clearance.



Add a 1.25 mm Chamfer for smooth edges.