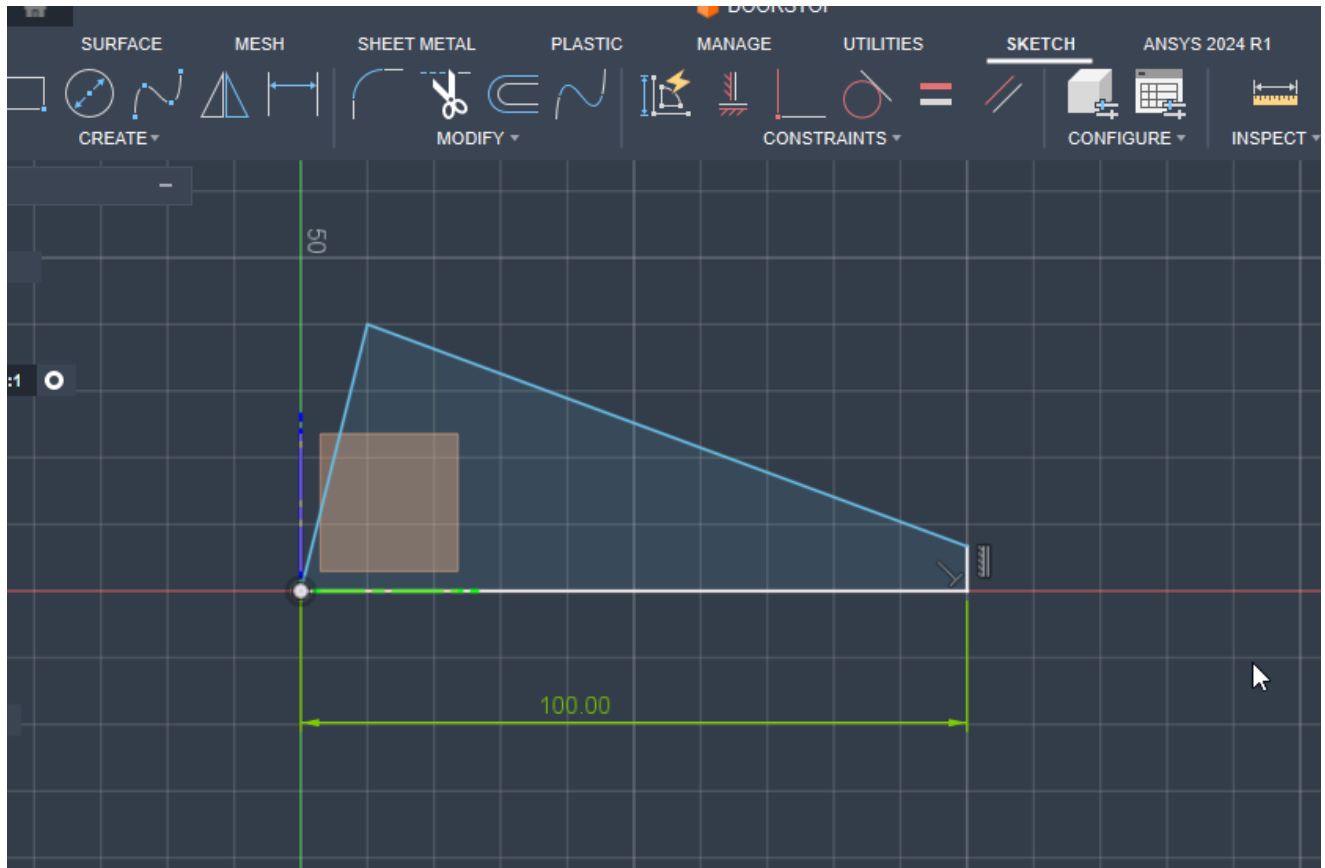
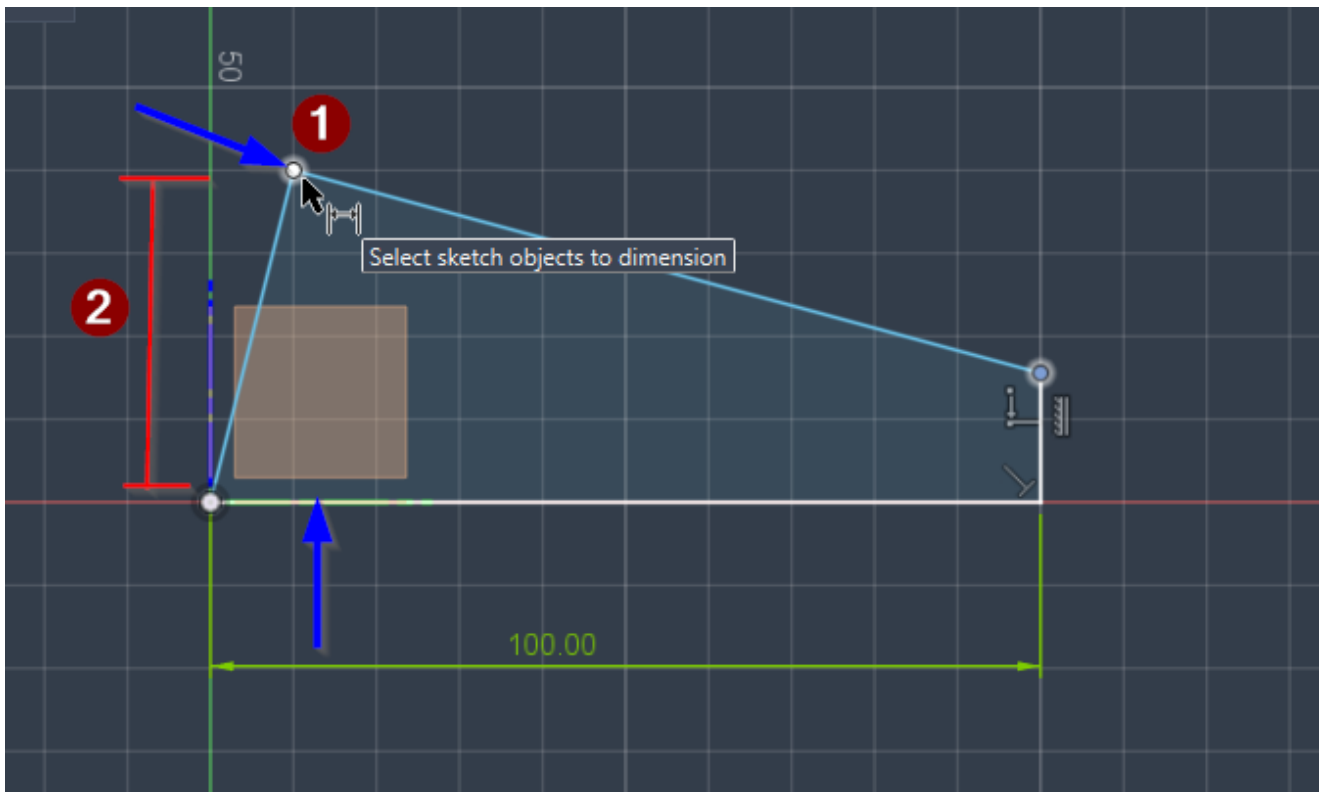


Doorstop

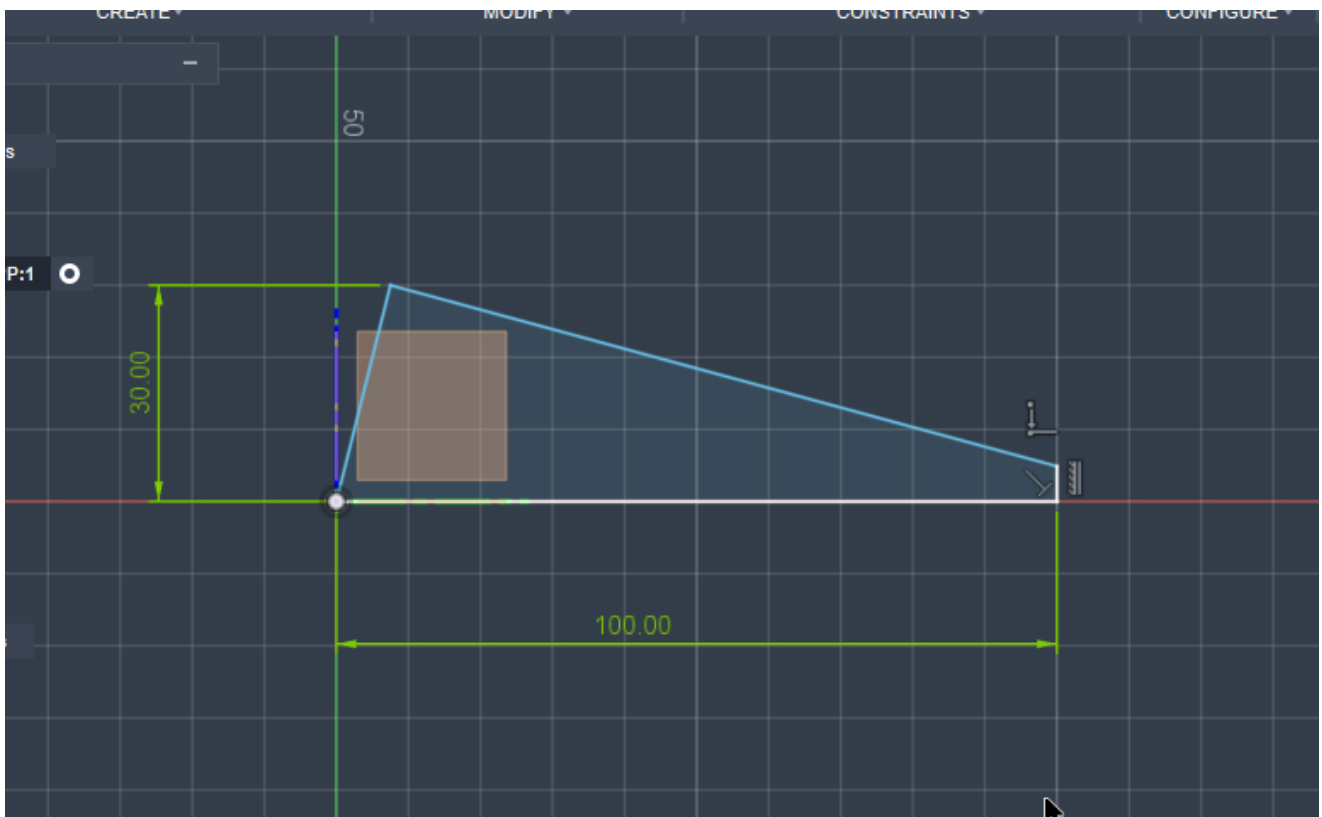


Make a sketch like this on the YZ plane.

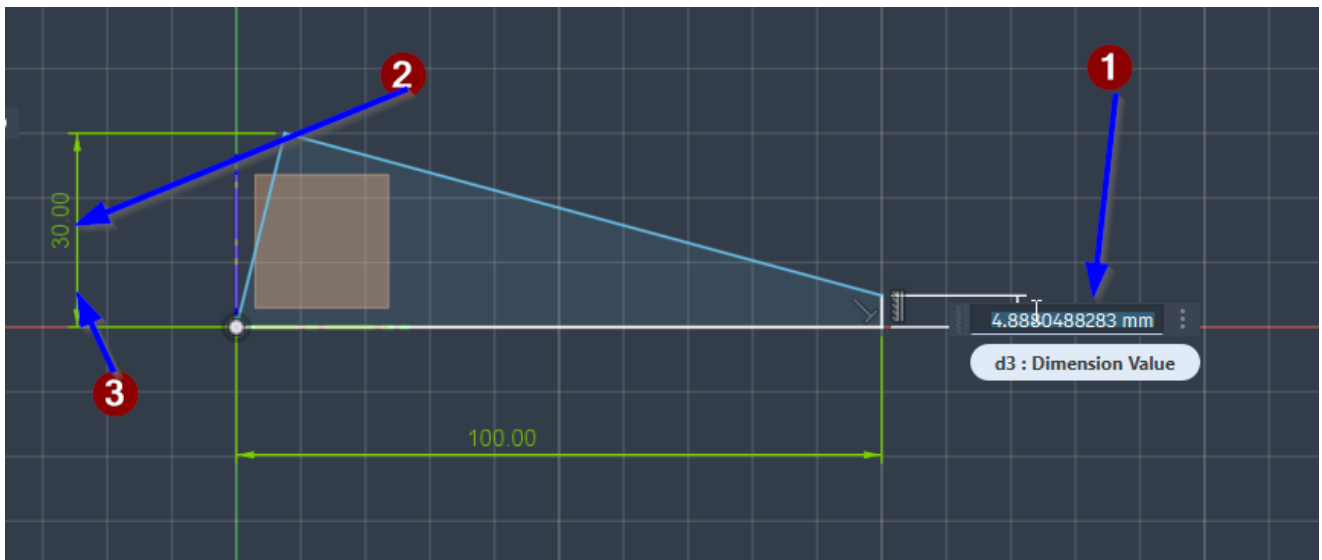
Set the bottom line to 100 mm, then proceed to next steps.



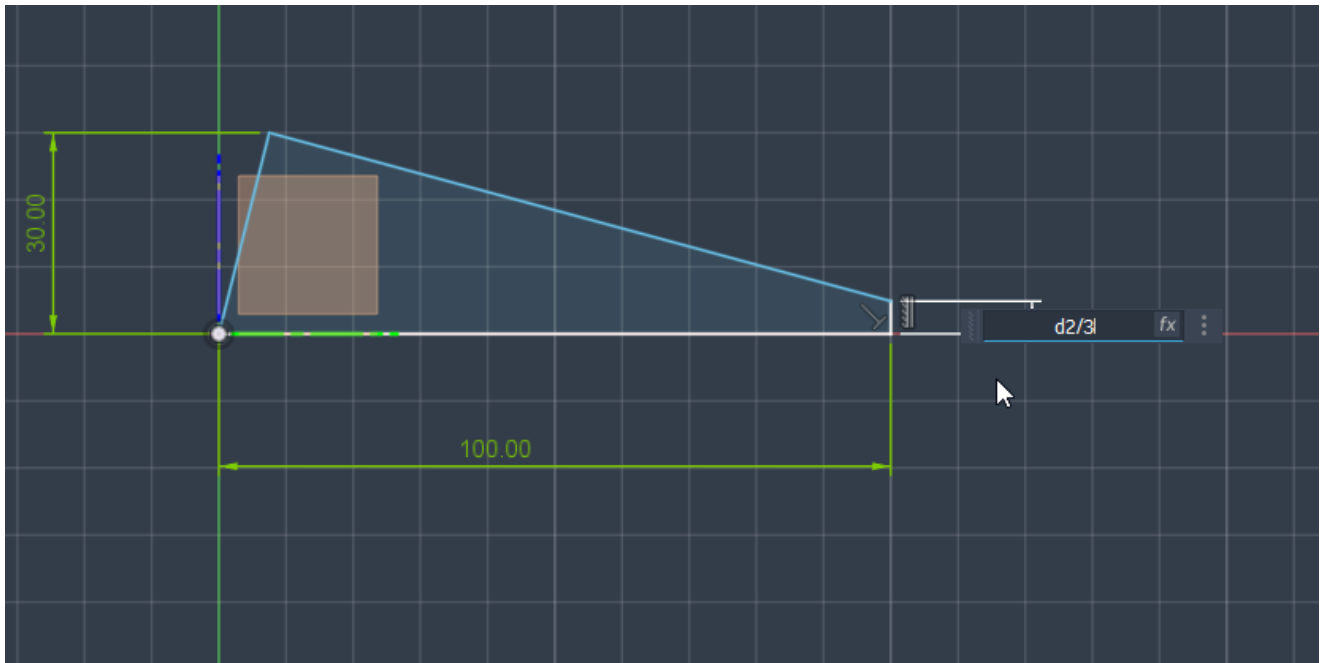
Use Sketch Dimension → click point 1 → click bottom line → set height to 30 mm.



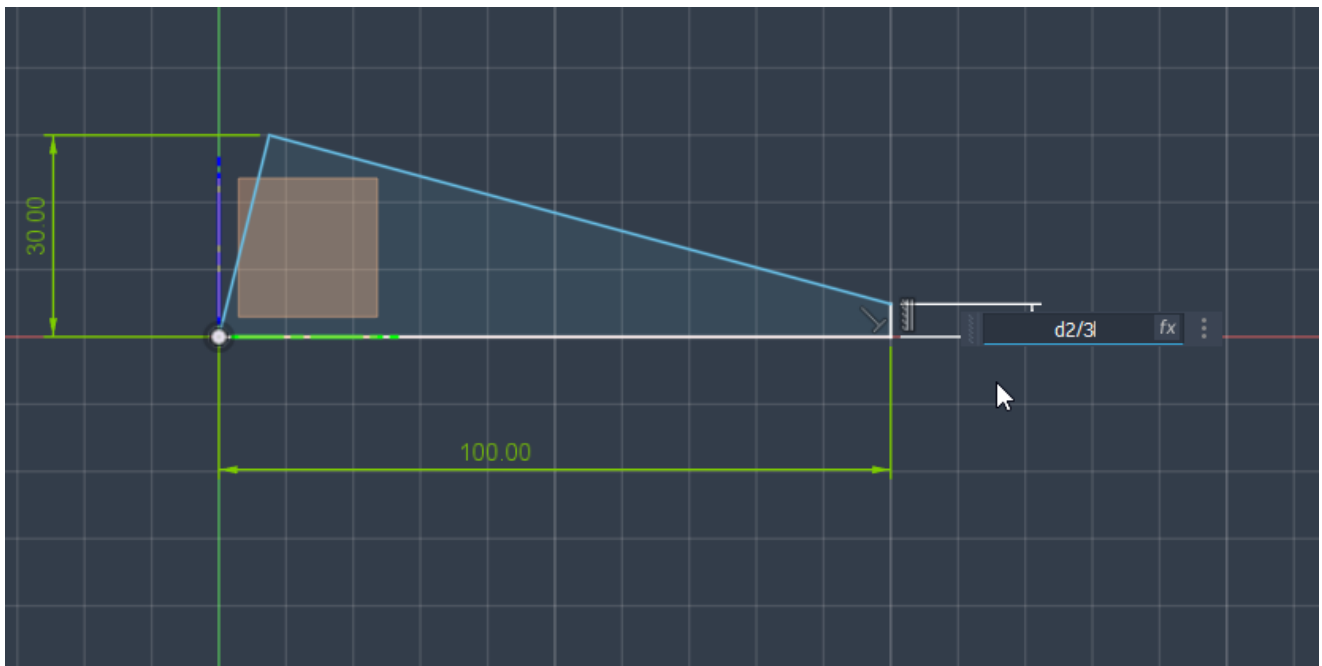
Should look like this after setting 30mm.



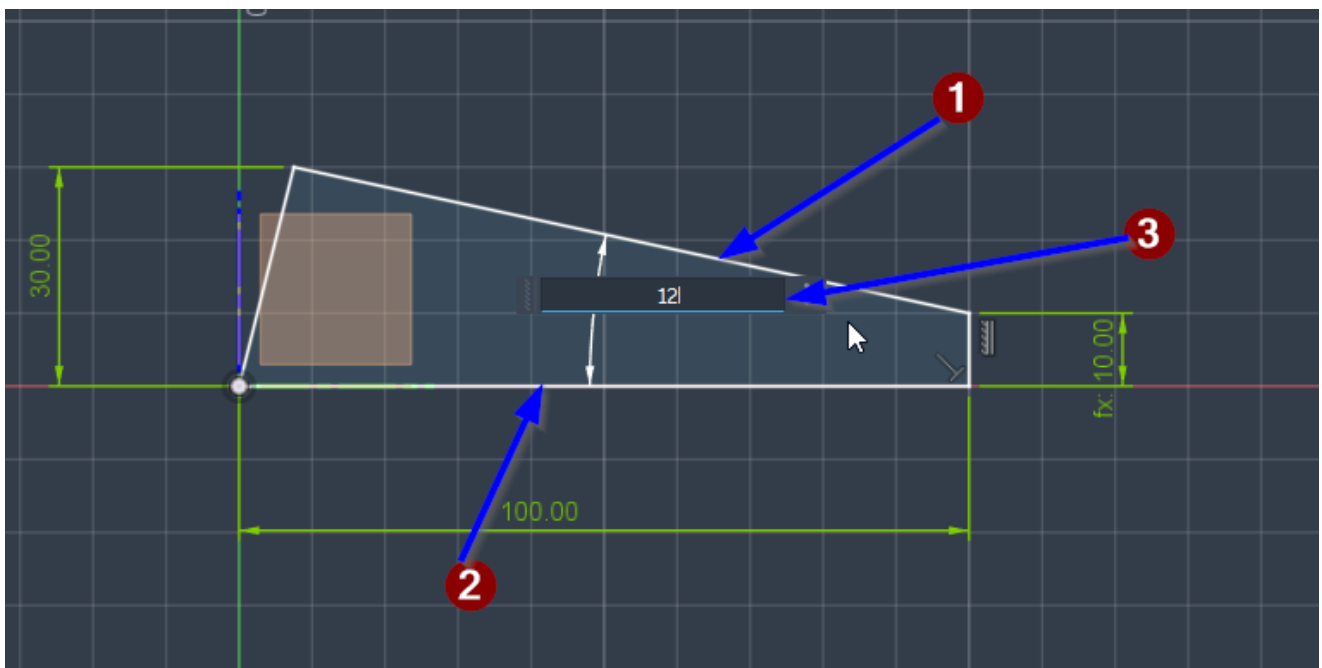
We need the slanted line (1) to be $\frac{1}{3}$ of the vertical line (2).
Click dimension (3) to edit it.



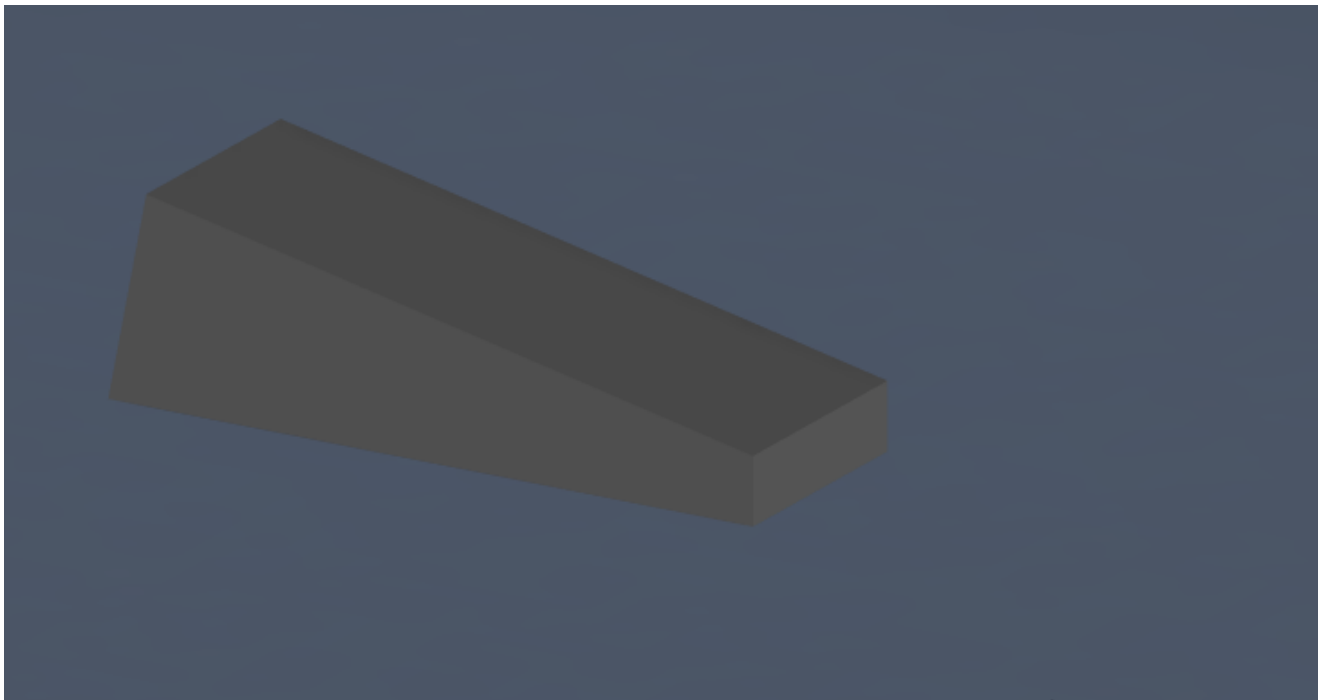
Dimension shows D2 $\rightarrow$ type $/3$ after the height dimension.



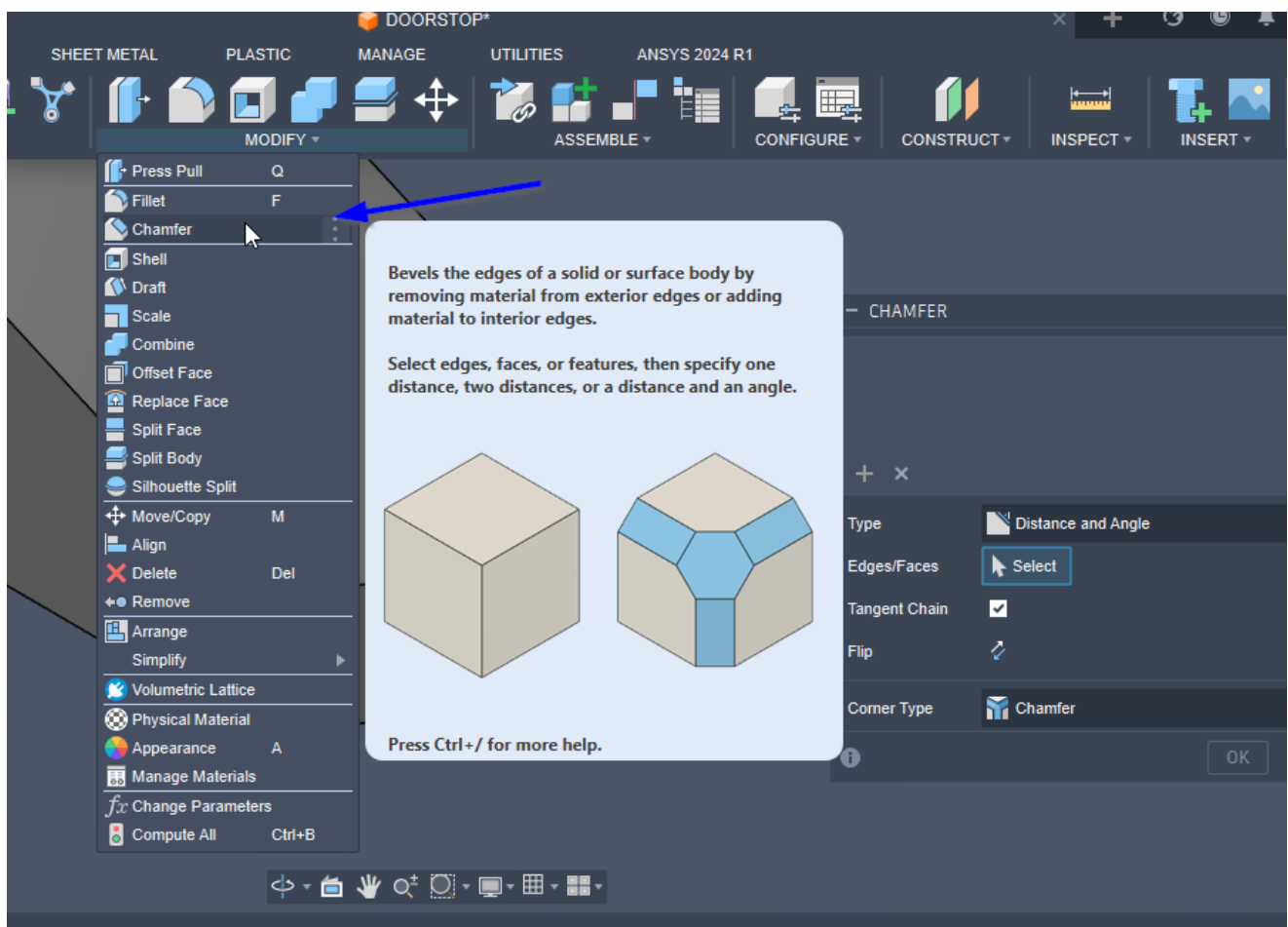
Done! The sketch auto-updates correctly.



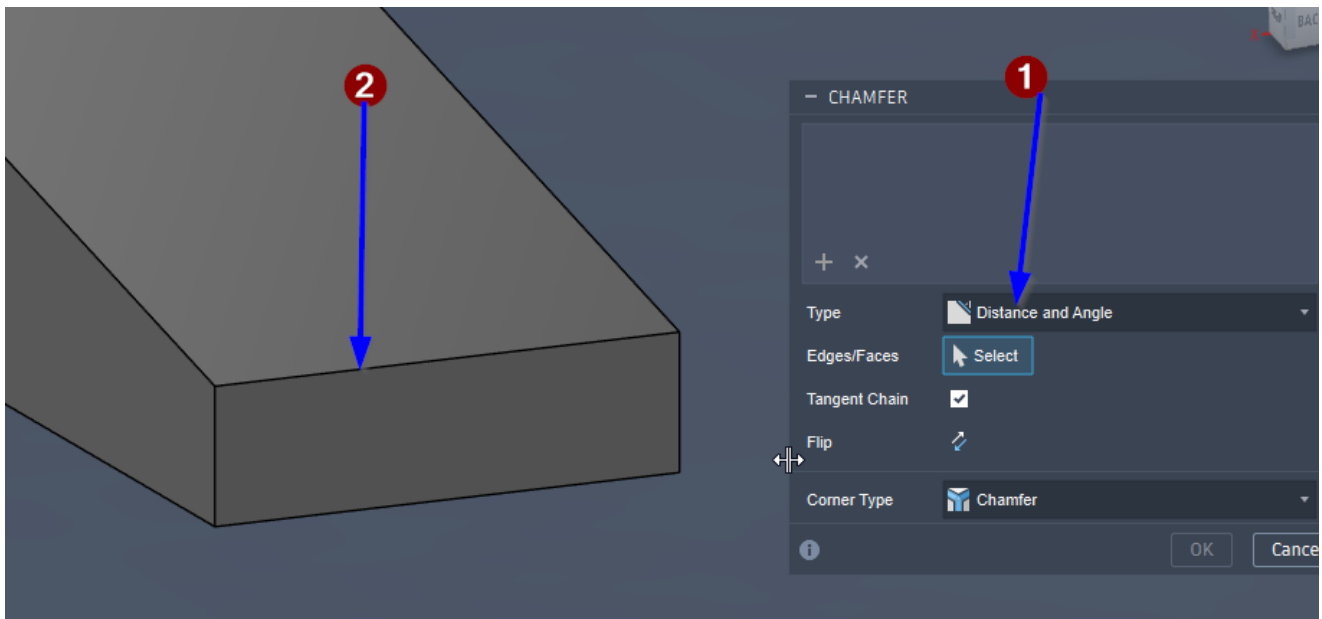
Use Sketch Dimension → click line 1 and 2 → set the angle to 12°.



Extrude the sketch → 35 mm.

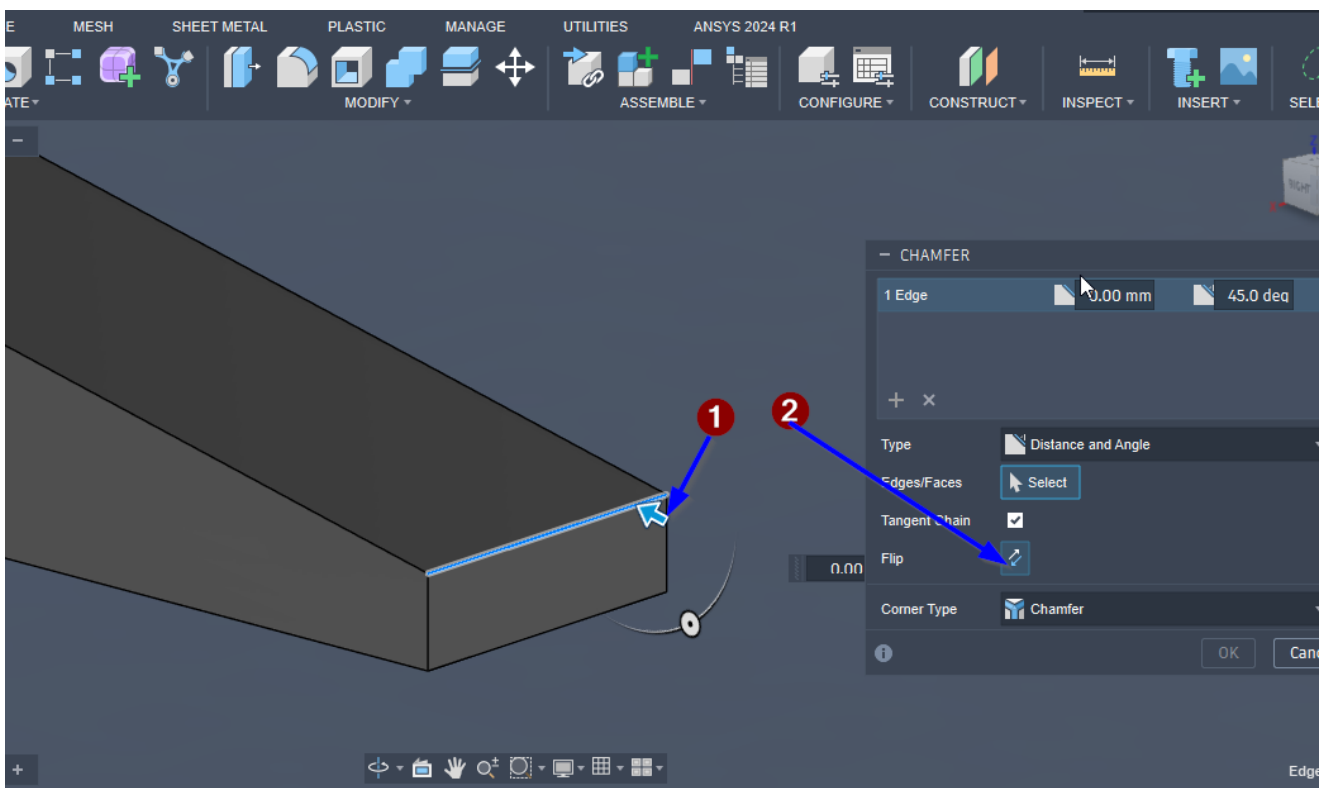


Open Chamfer tool.



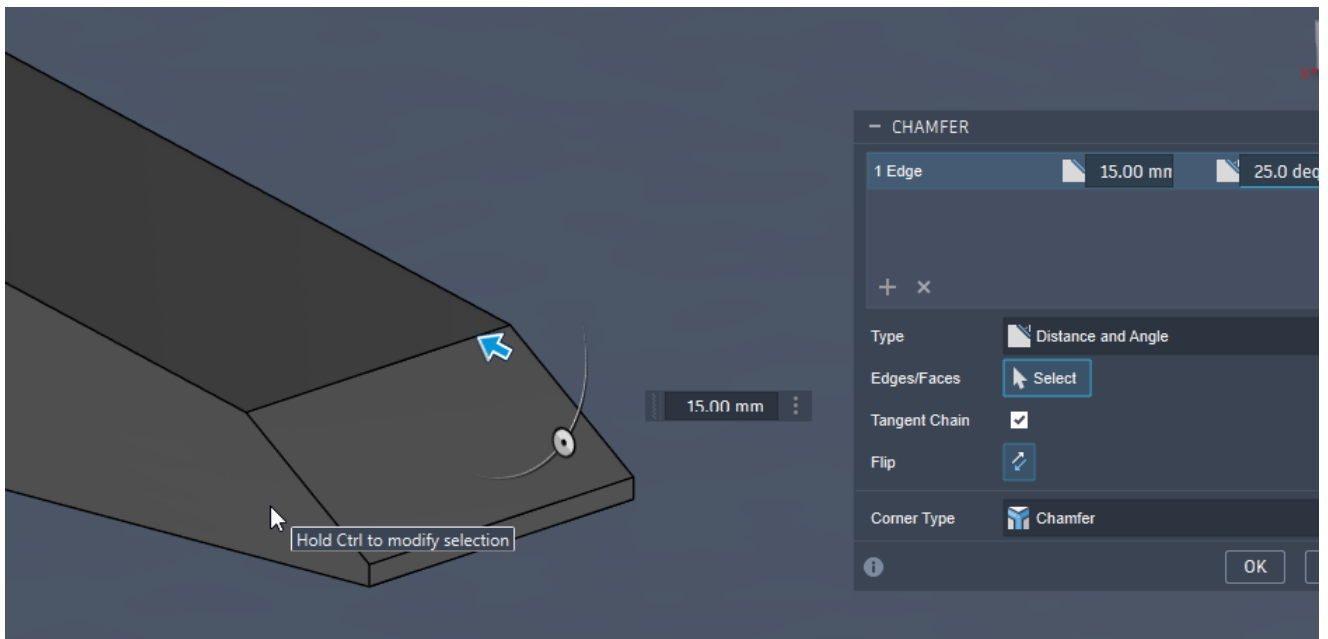
**1. Select “Distance and Angle”.

**2. Select this edge.

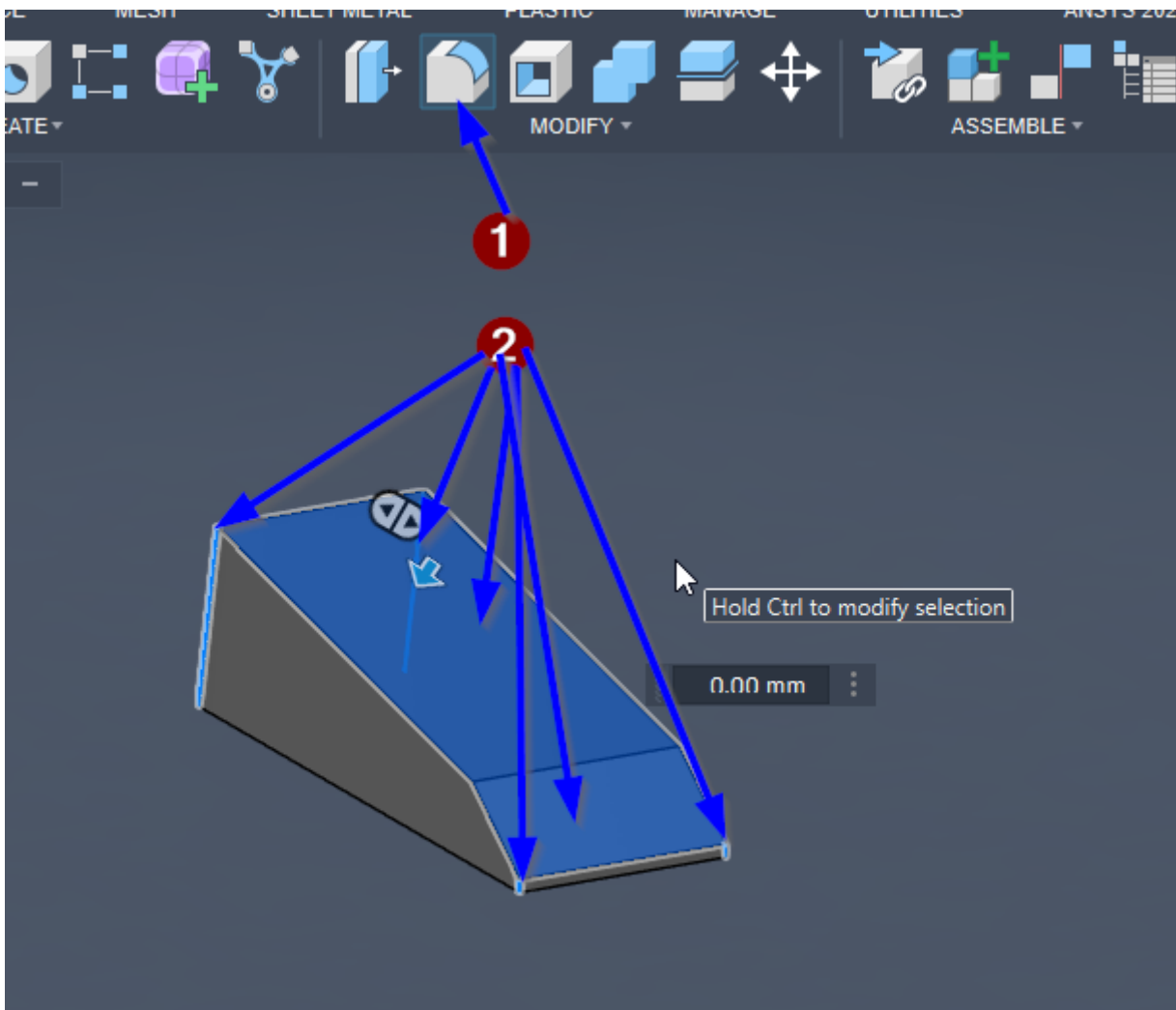


Make sure arrow is facing the correct direction (use Flip if needed).

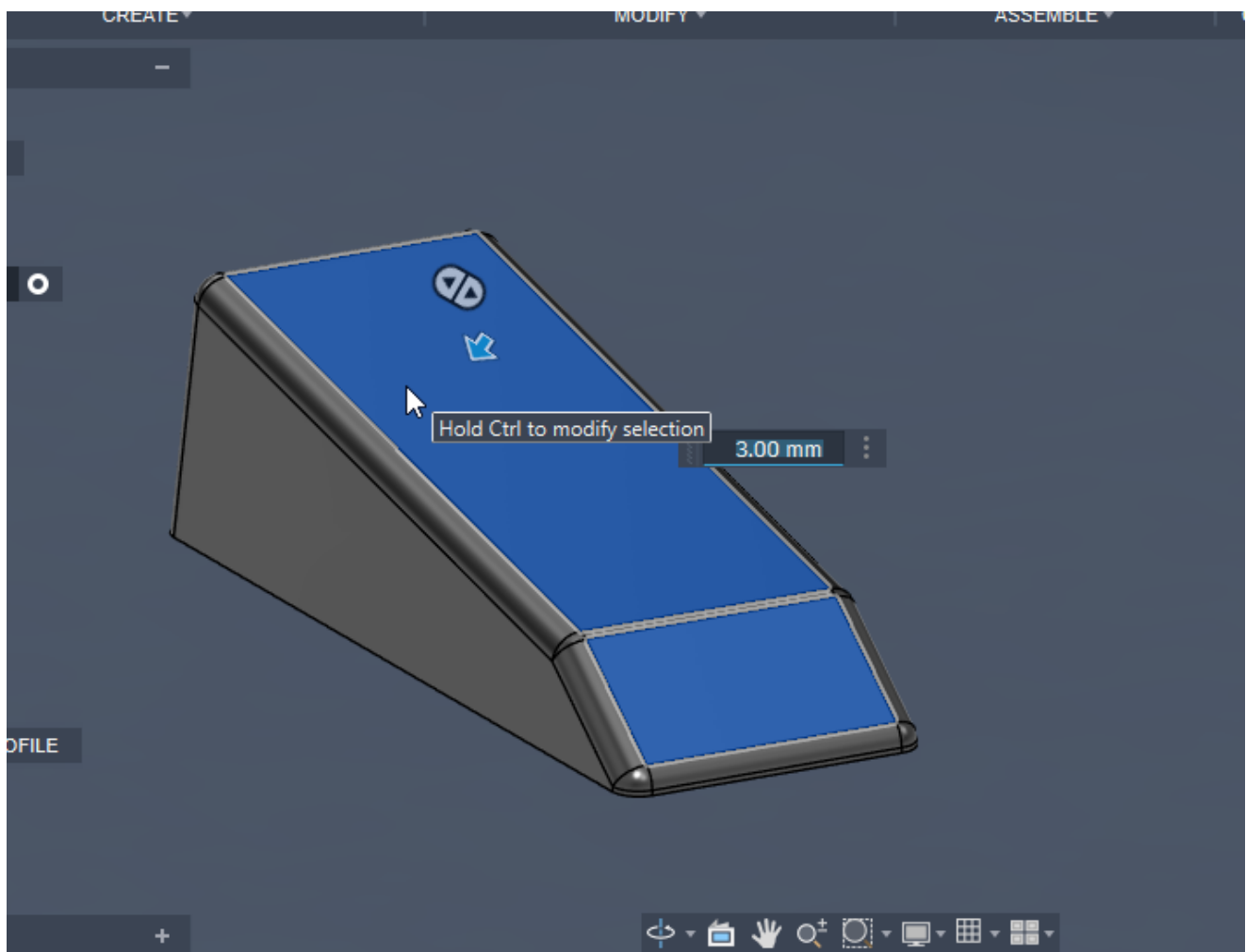
Set Distance = 15 mm, Angle = 25°.



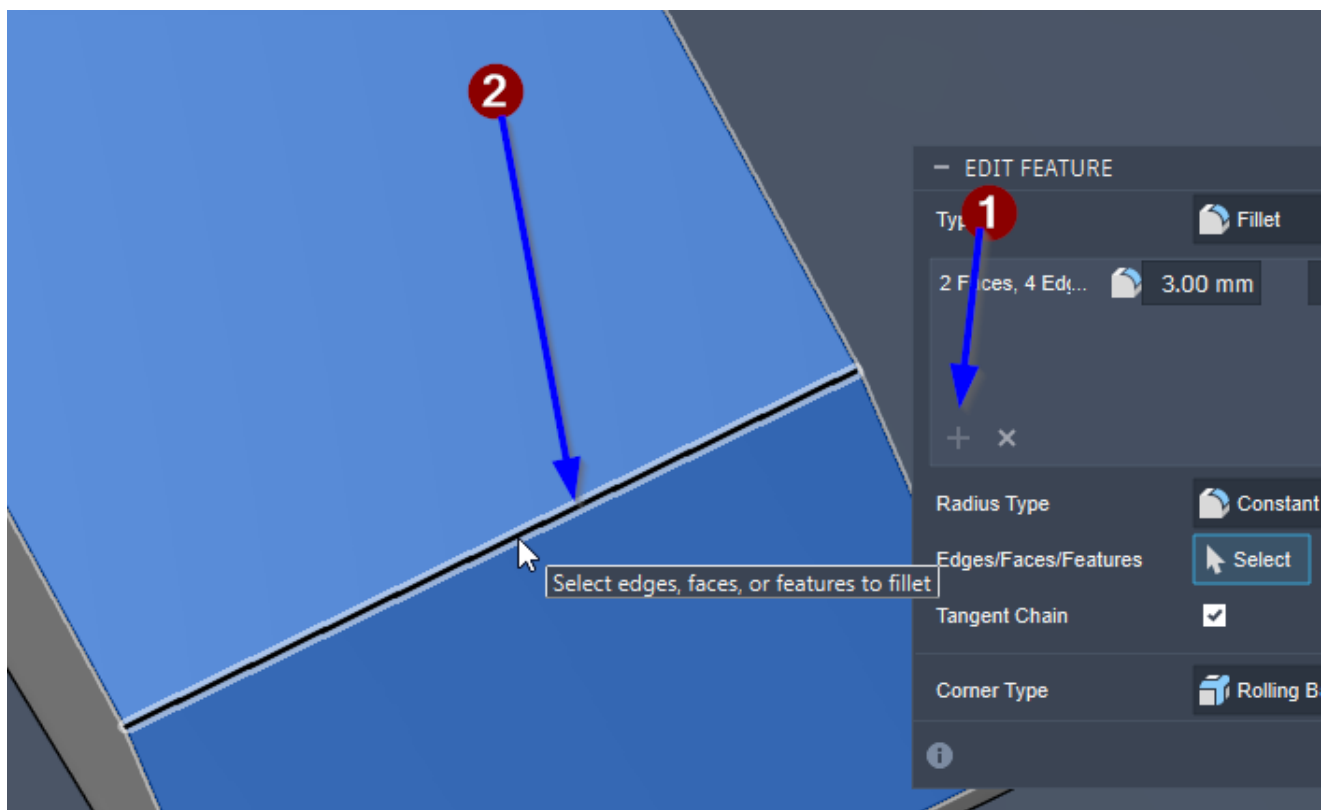
Chamfer should now look like this.



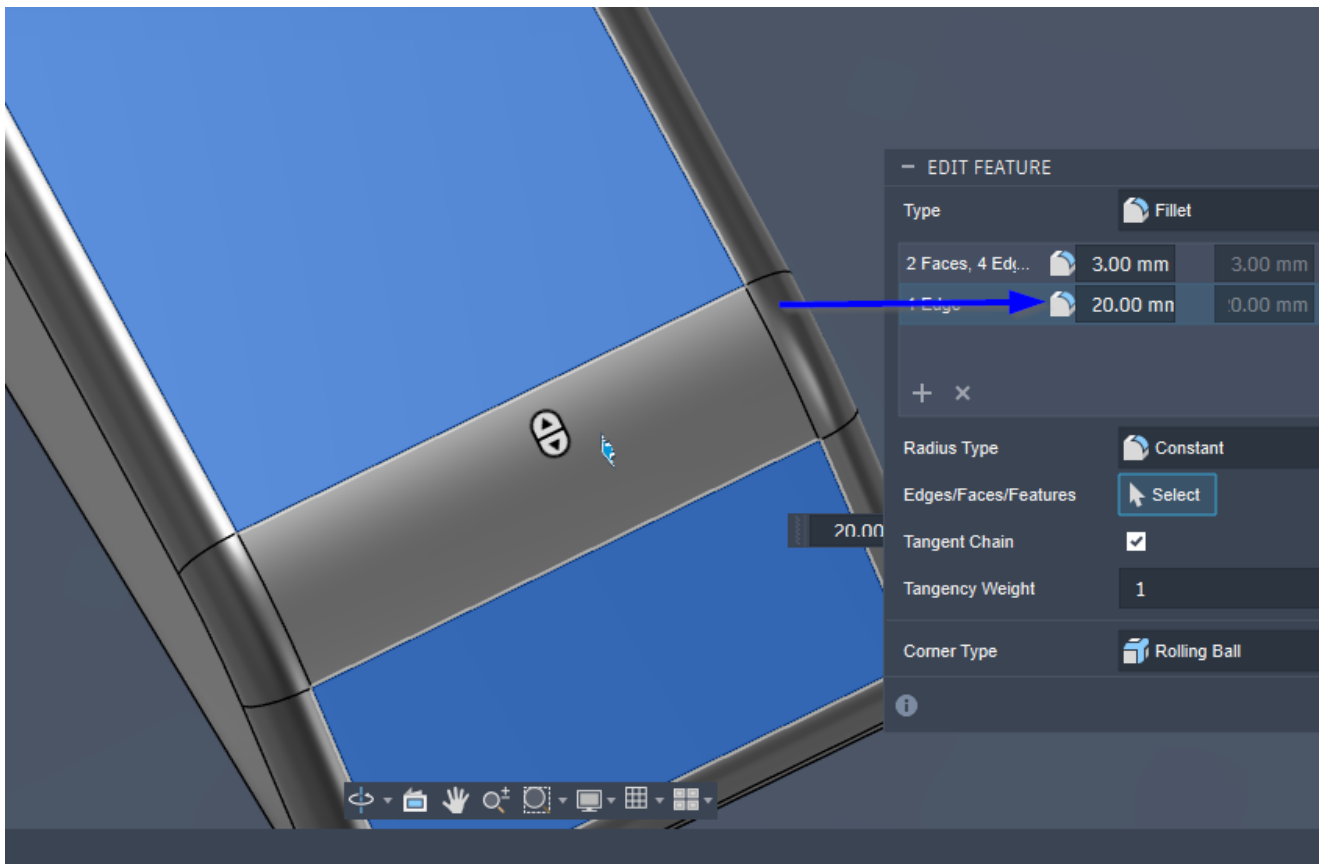
Select Fillet → choose the two faces + corner edges shown.



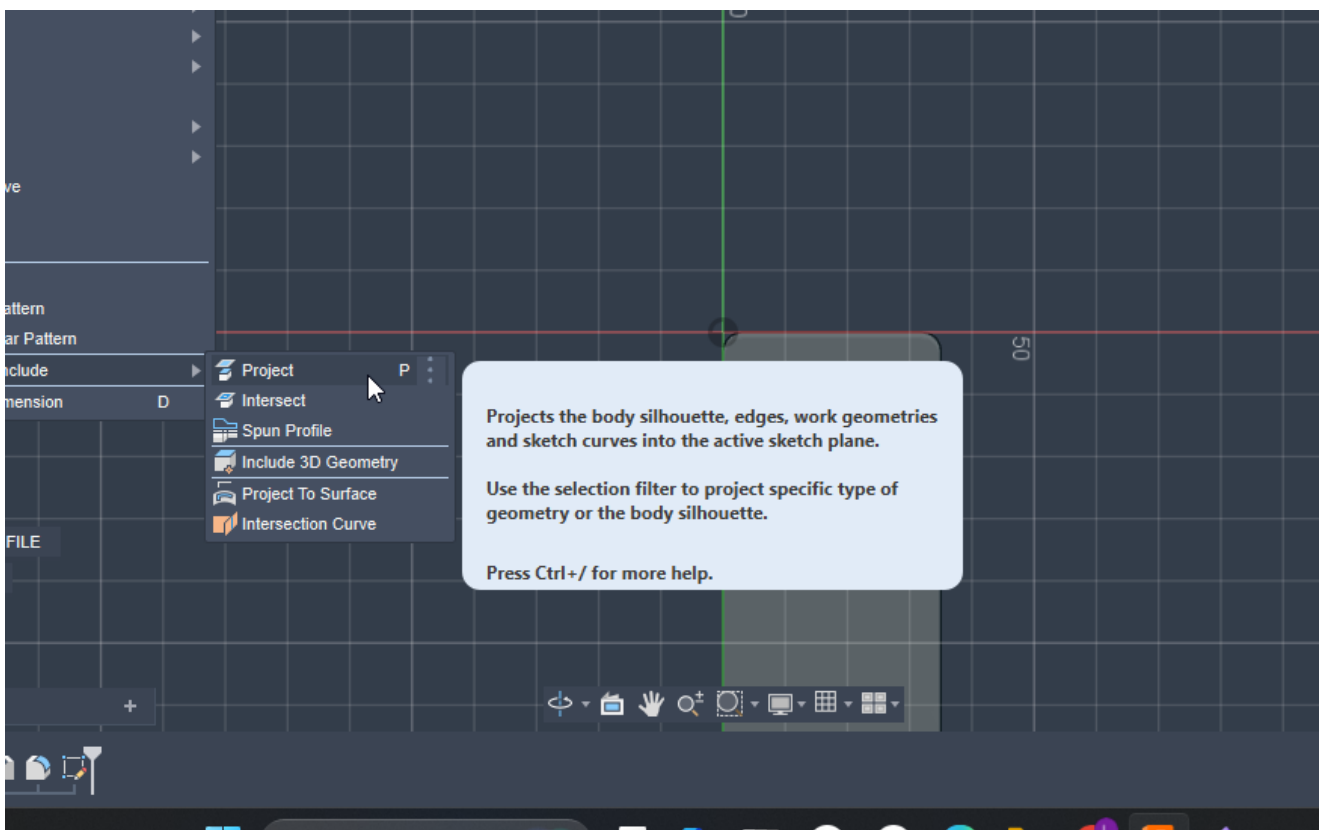
Set fillet to 3 mm.



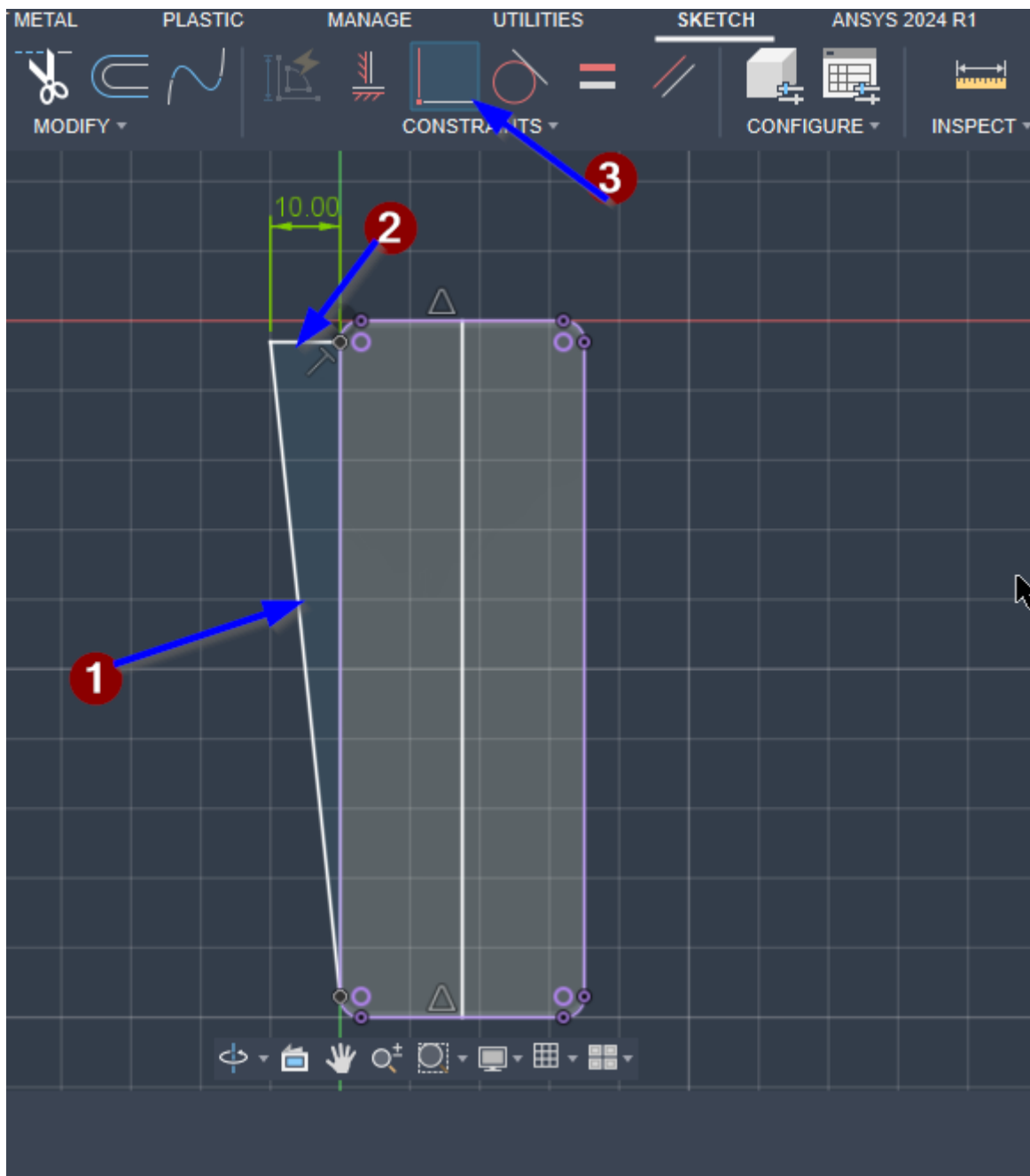
Click the “+” in Fillet panel to add another fillet to edge (2).



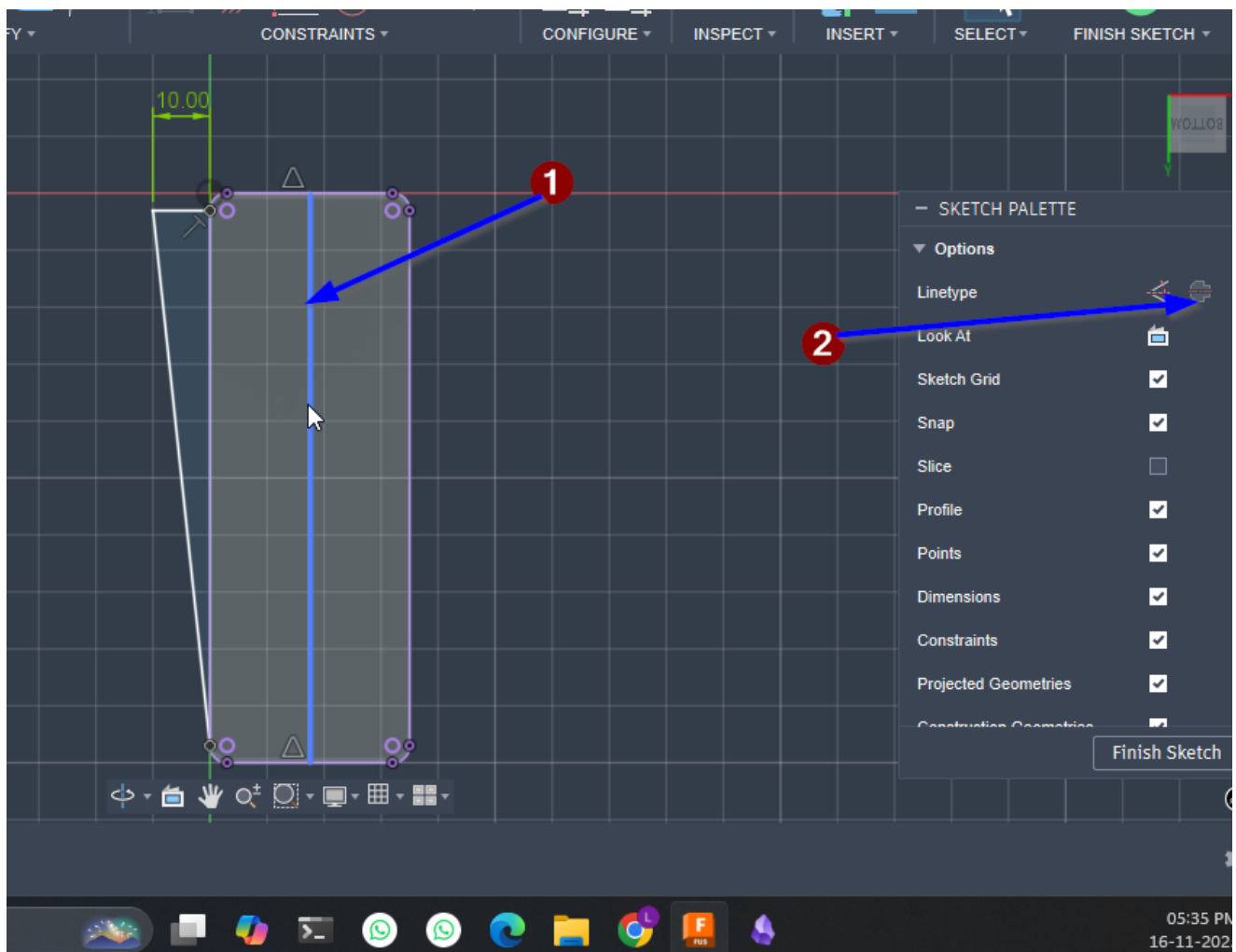
Set this secondary fillet to 45 mm.



Flip model → sketch on back surface → use Project.

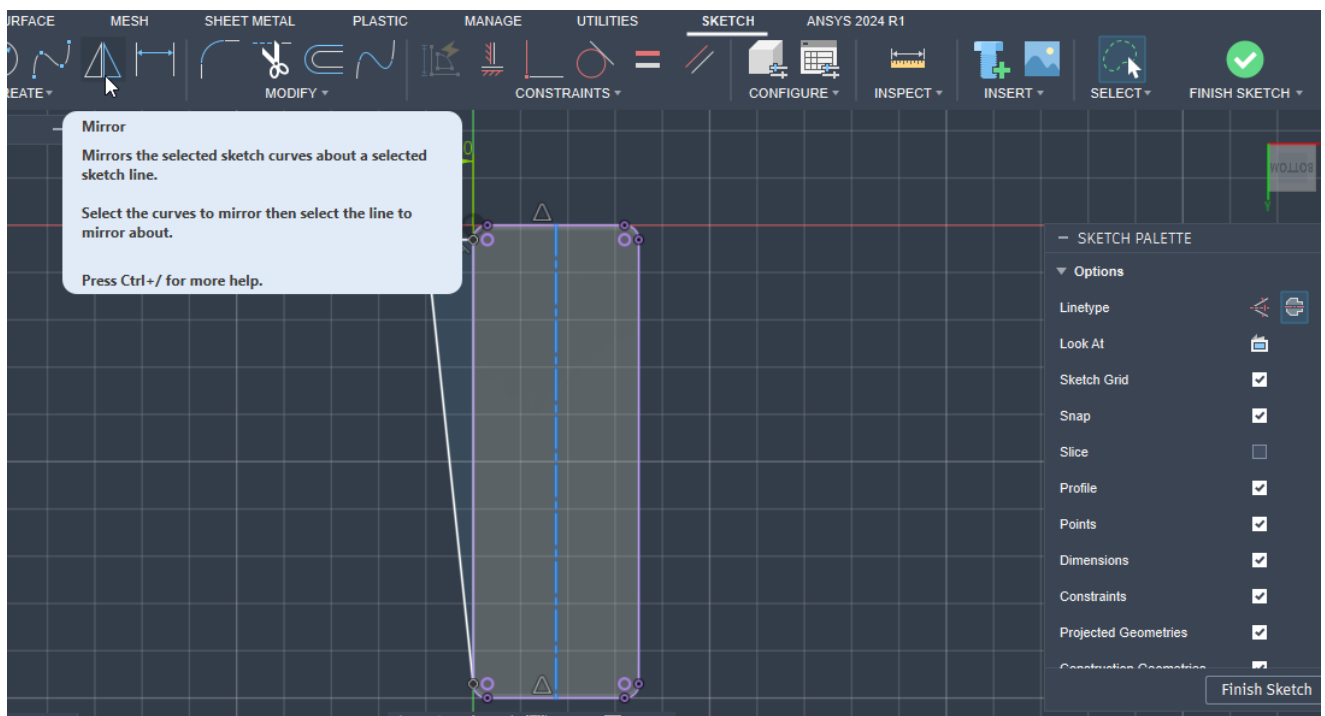


1. Draw any angled line
 2. Draw a 10 mm horizontal line
 3. Use Coincident to join these two.
-

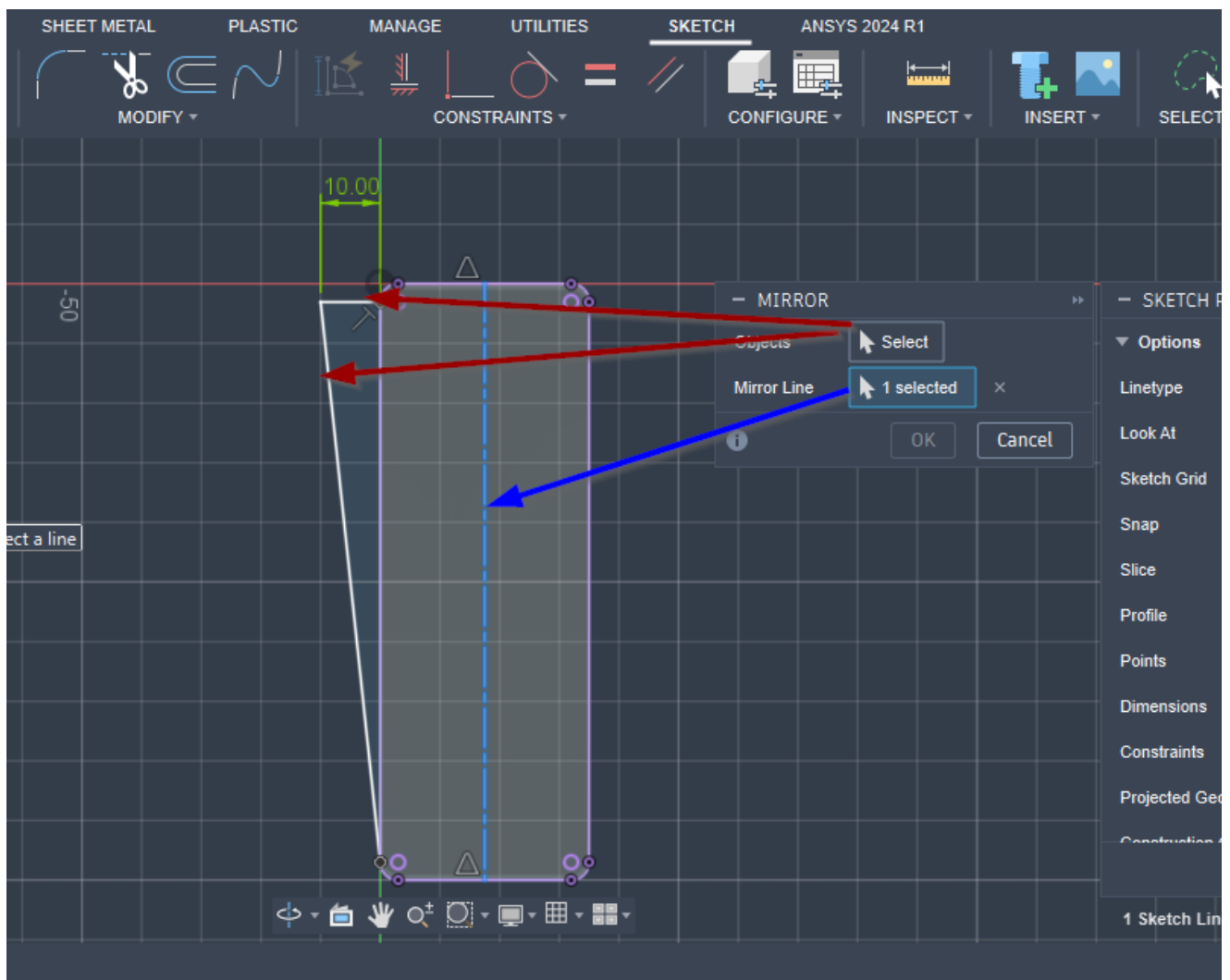


**1. Select the vertical line

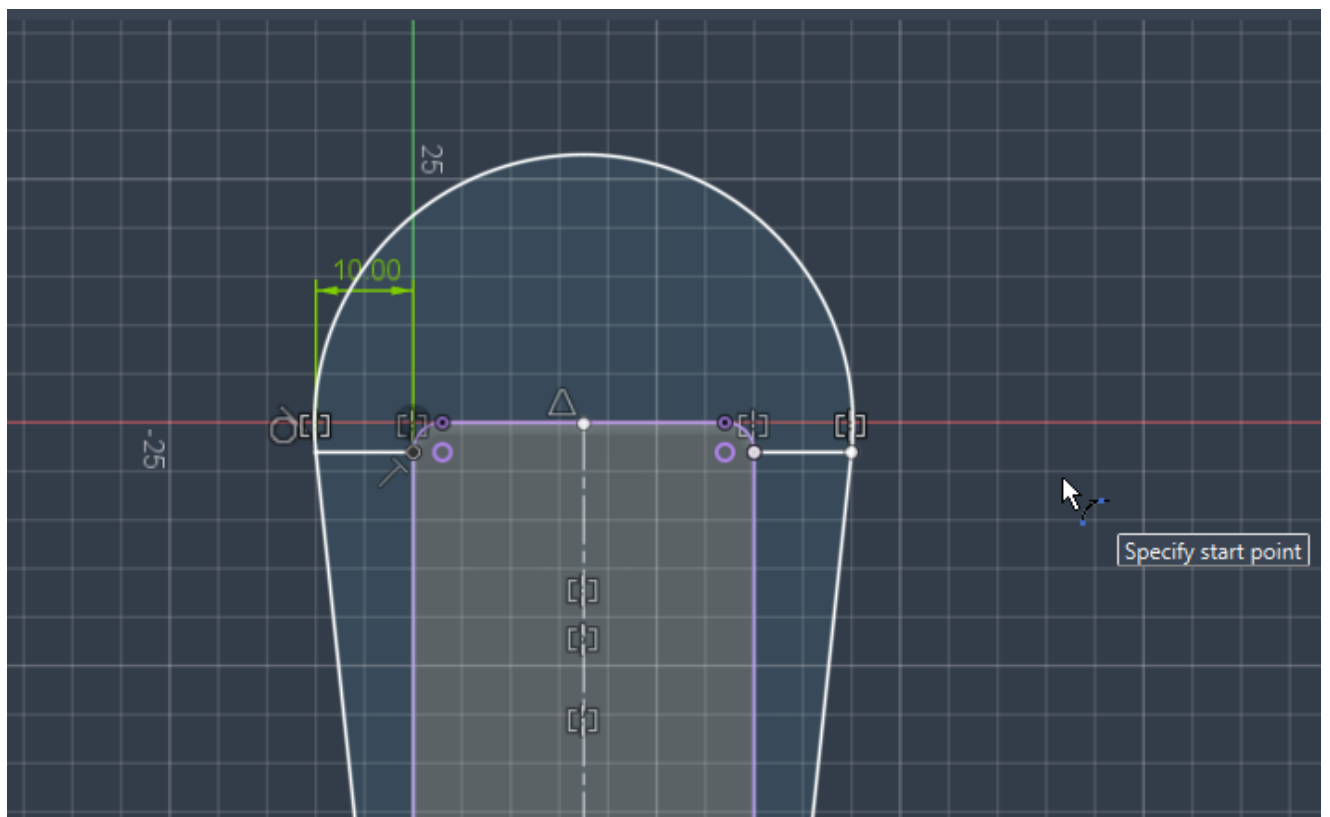
**2. Turn it into a Centerline.



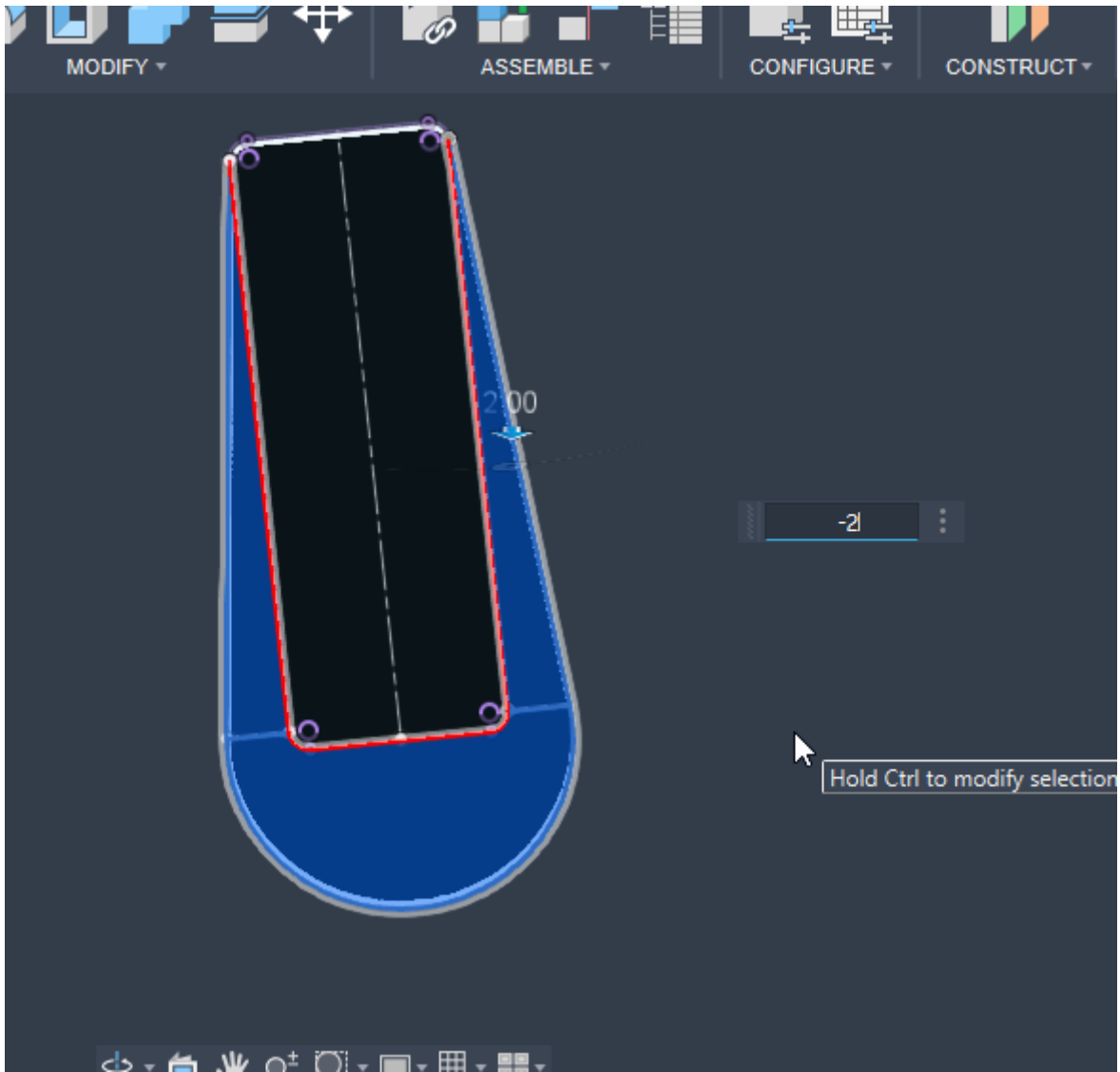
Use Mirror → select both lines to mirror them.



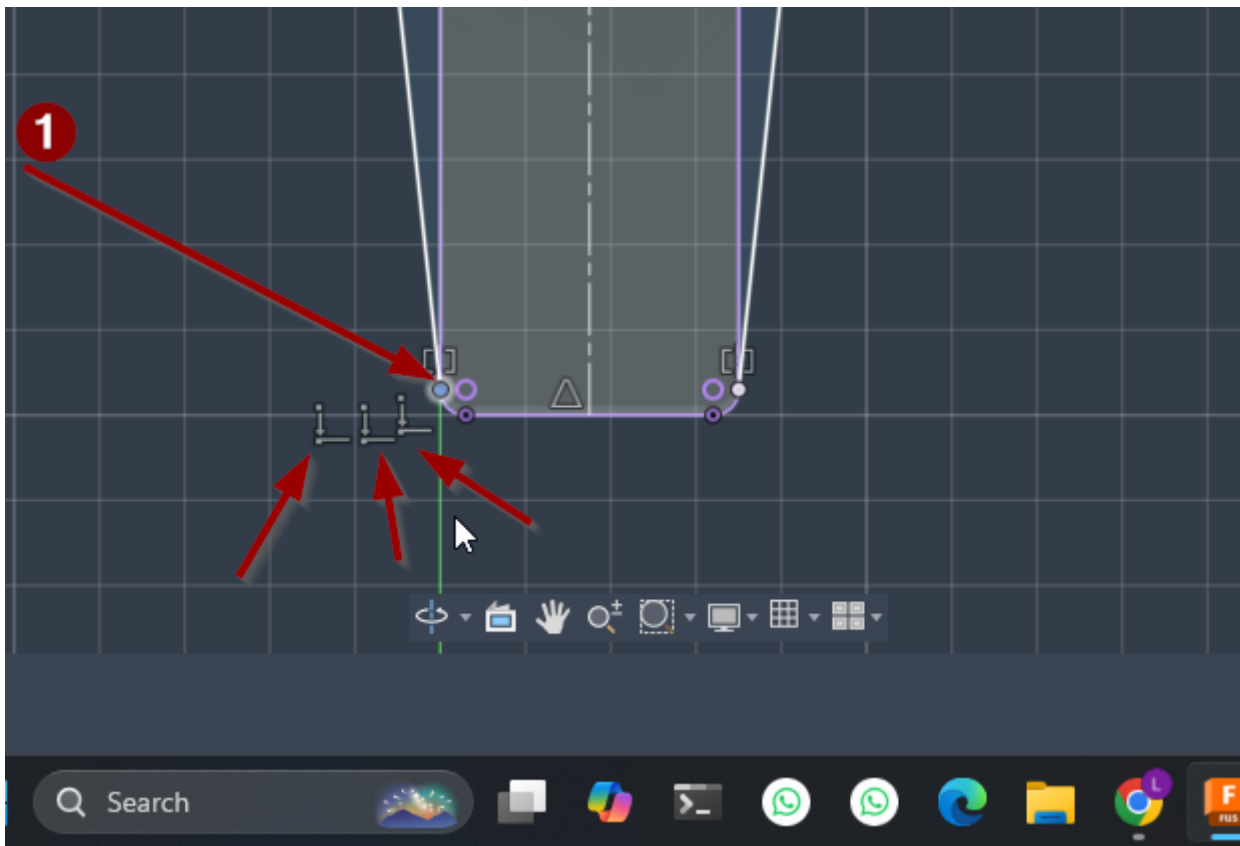
Select mirror line → select the two lines → Mirror applied.



Apply Tangent Arc between top mirrored points.

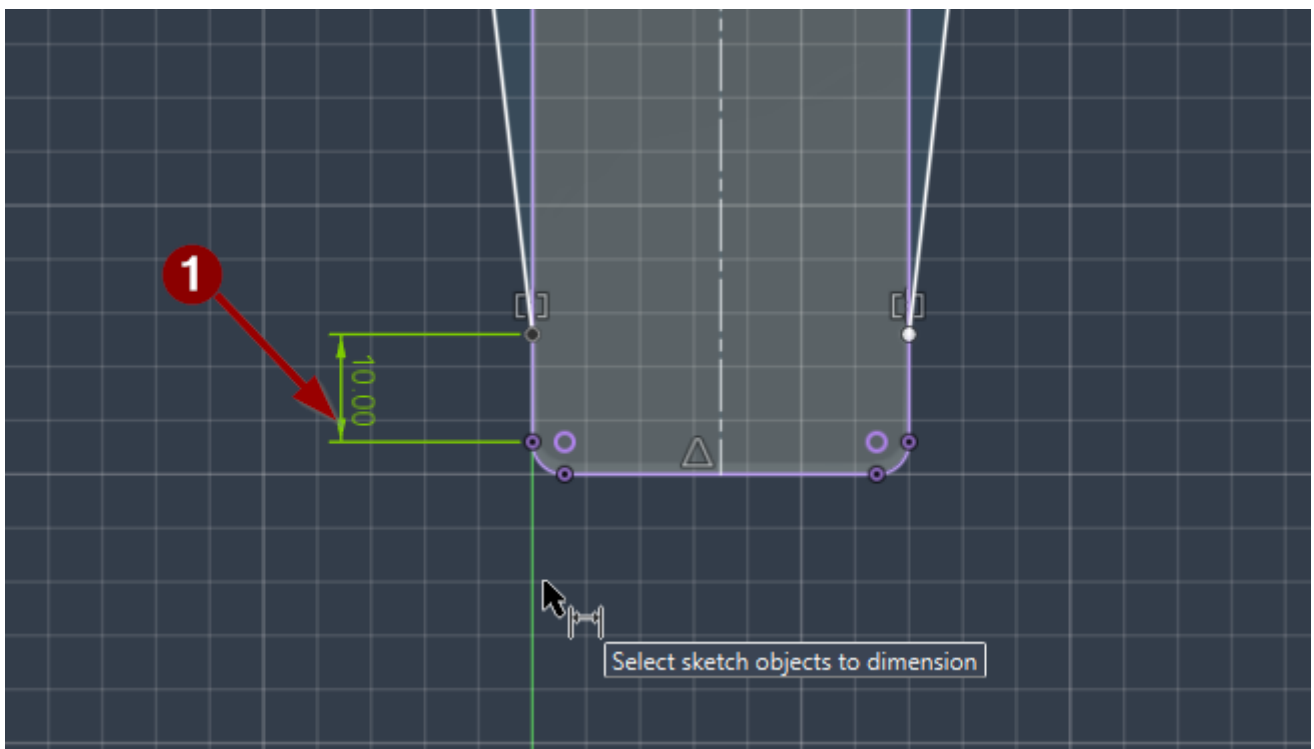


Extrude the shape -2 mm (cut inward).

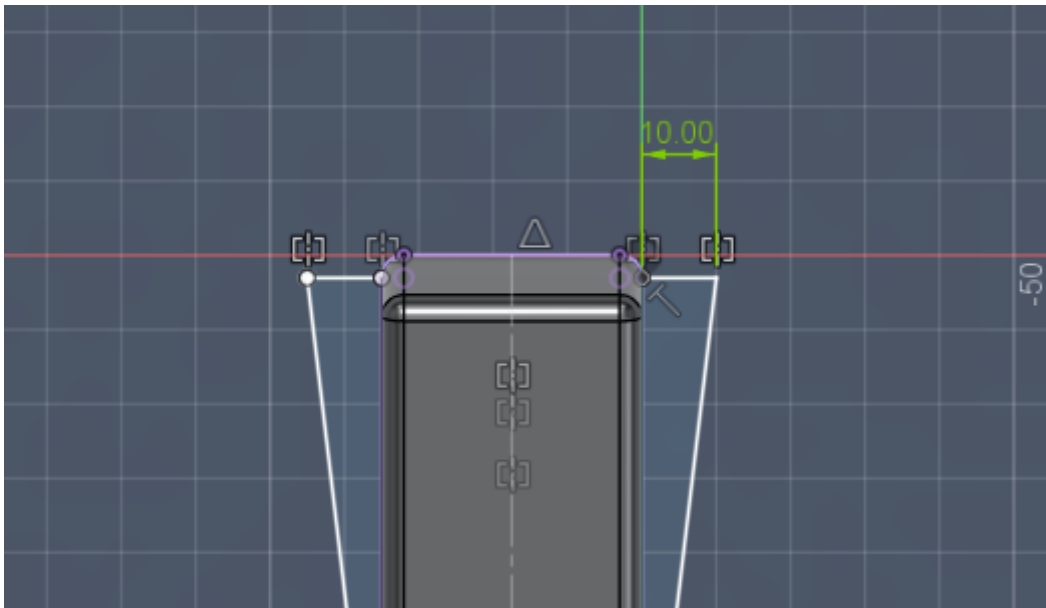


Move the line sketch upward (it is interfering).

**Delete one of the constraint arrows, move line, check if both sides move (mirror).
If not, delete the other arrow.**

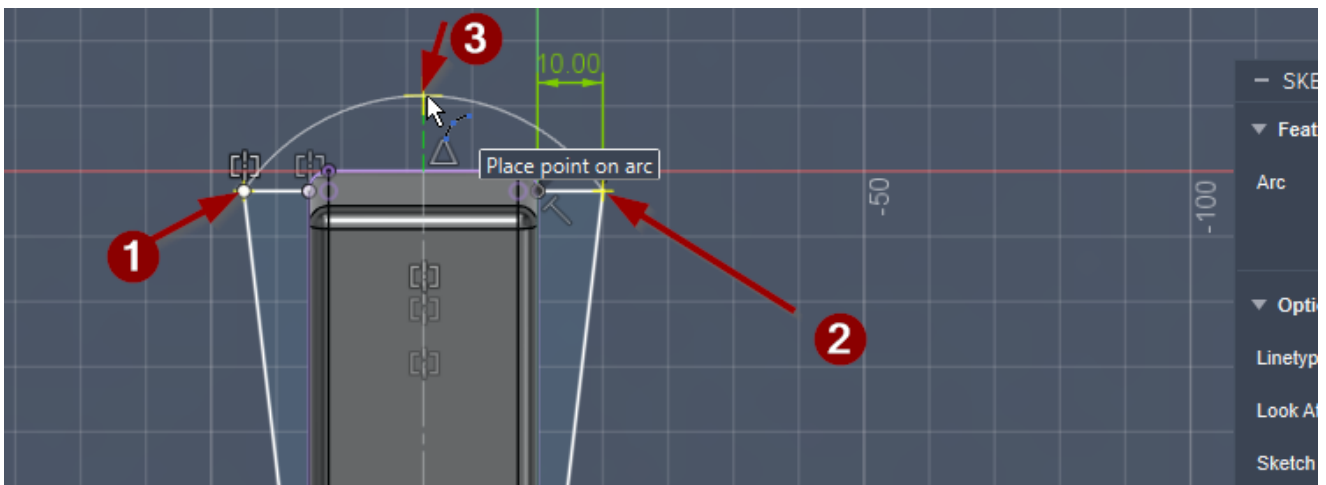


Use Sketch Dimension to move the line upward precisely.

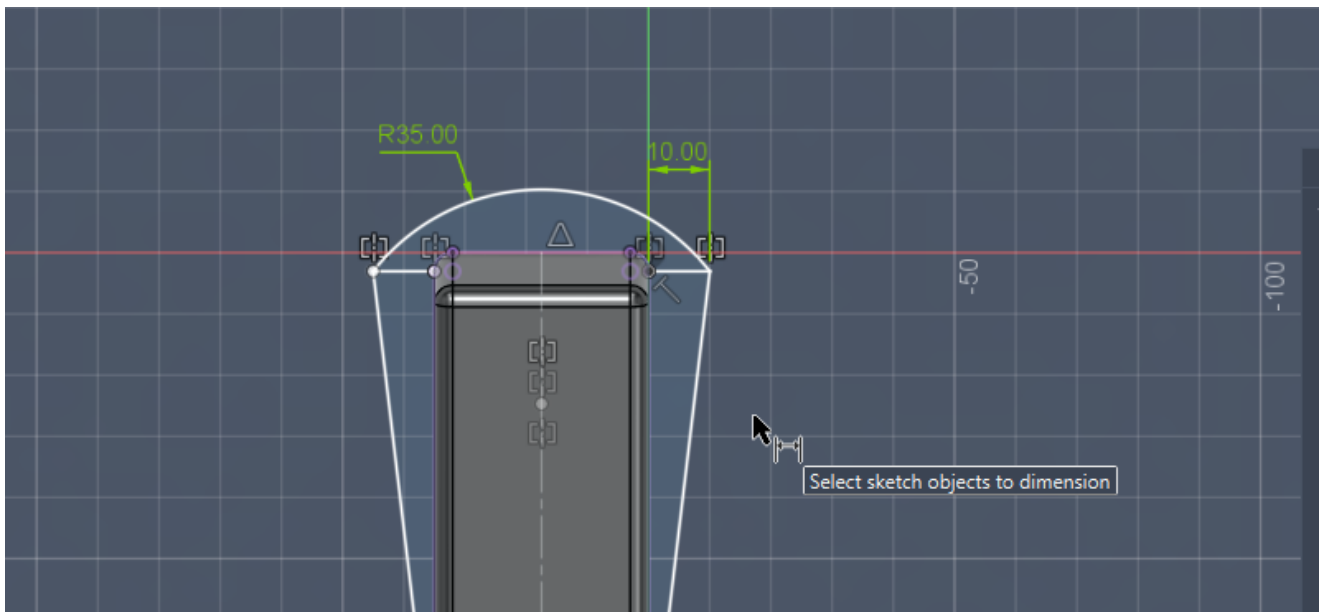


Delete the Tangent Arc.

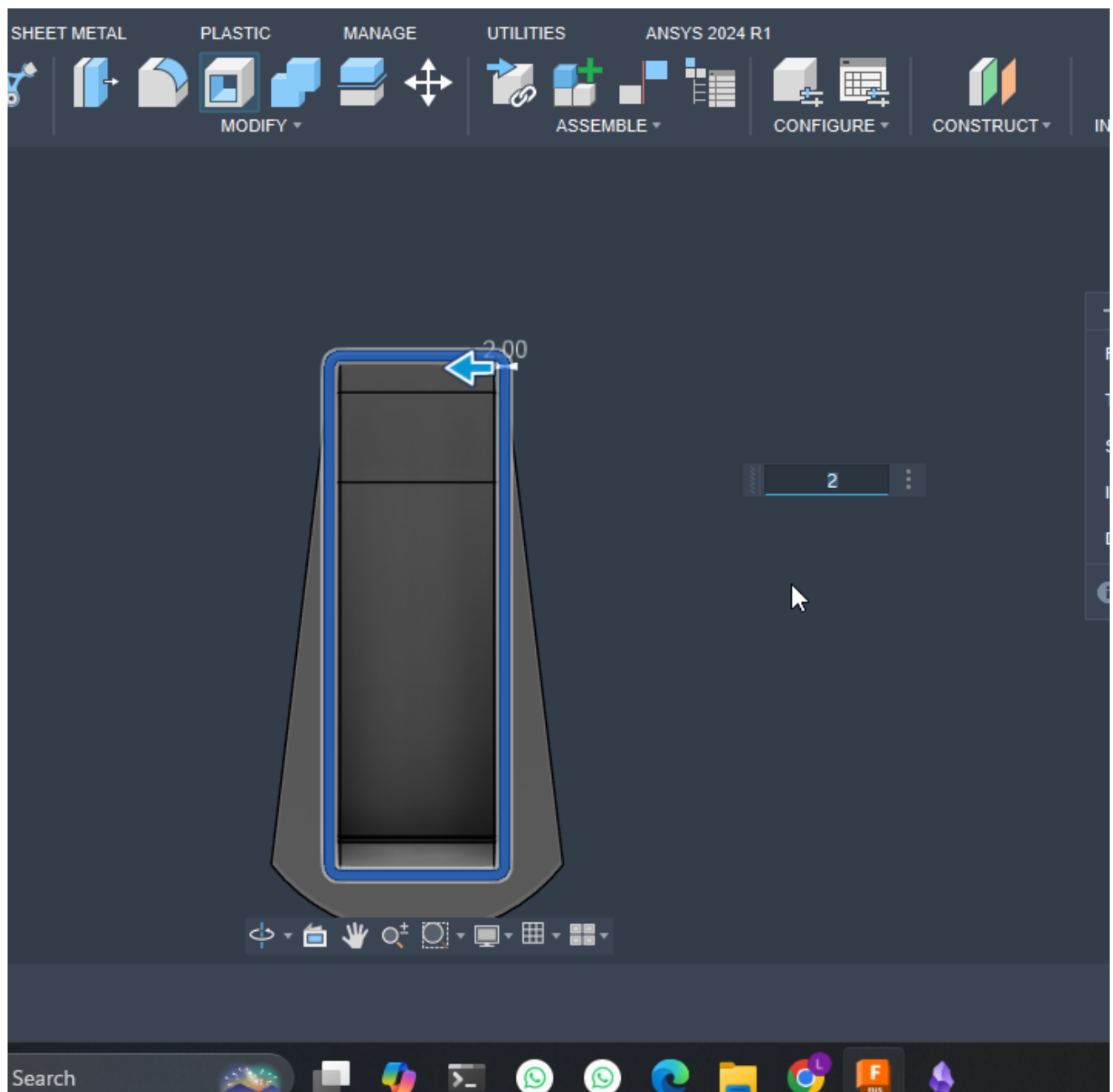
Now we will use a 3-Point Arc.



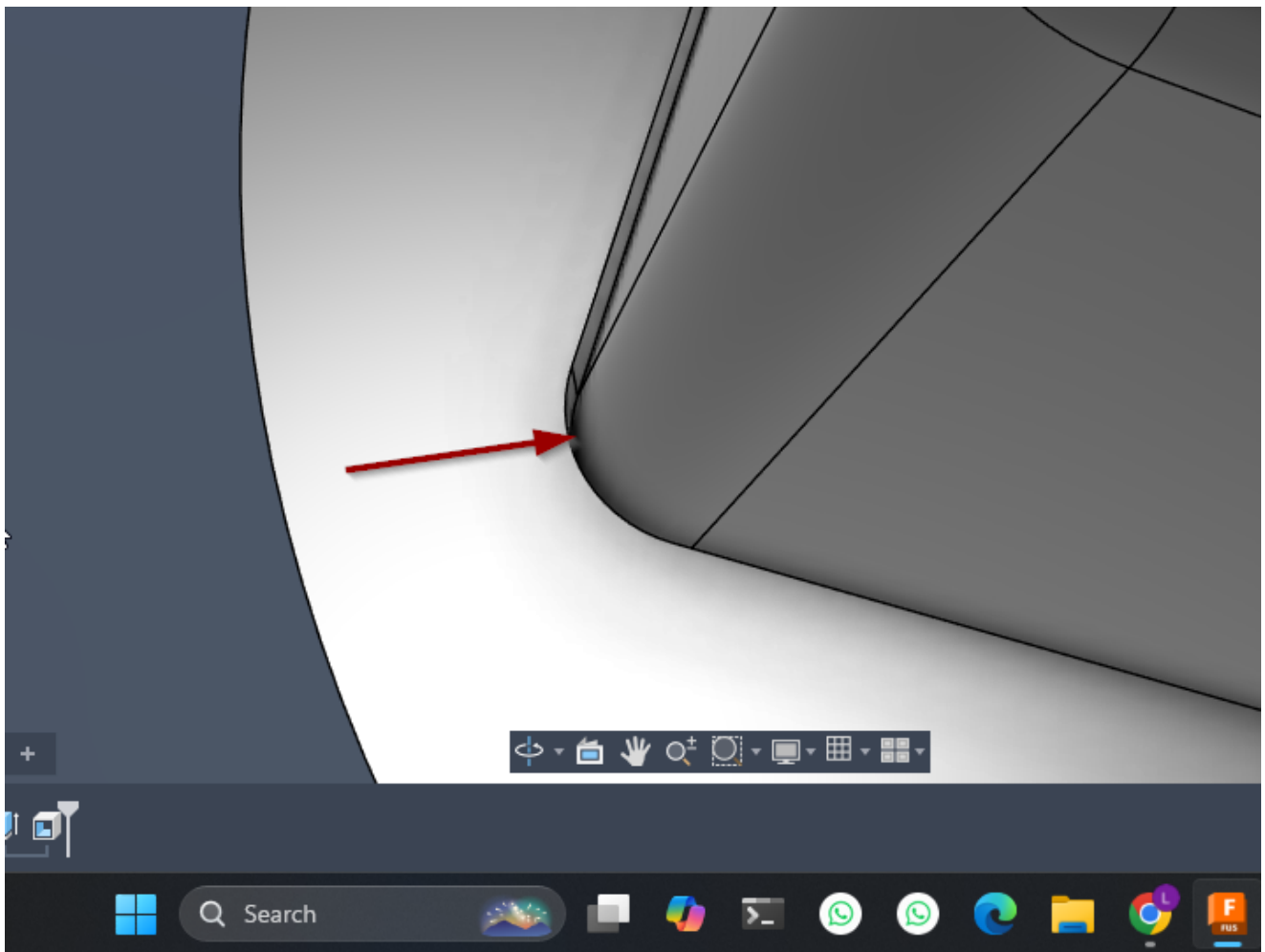
3-Point Arc: place start (1), end (2), then mid (3).



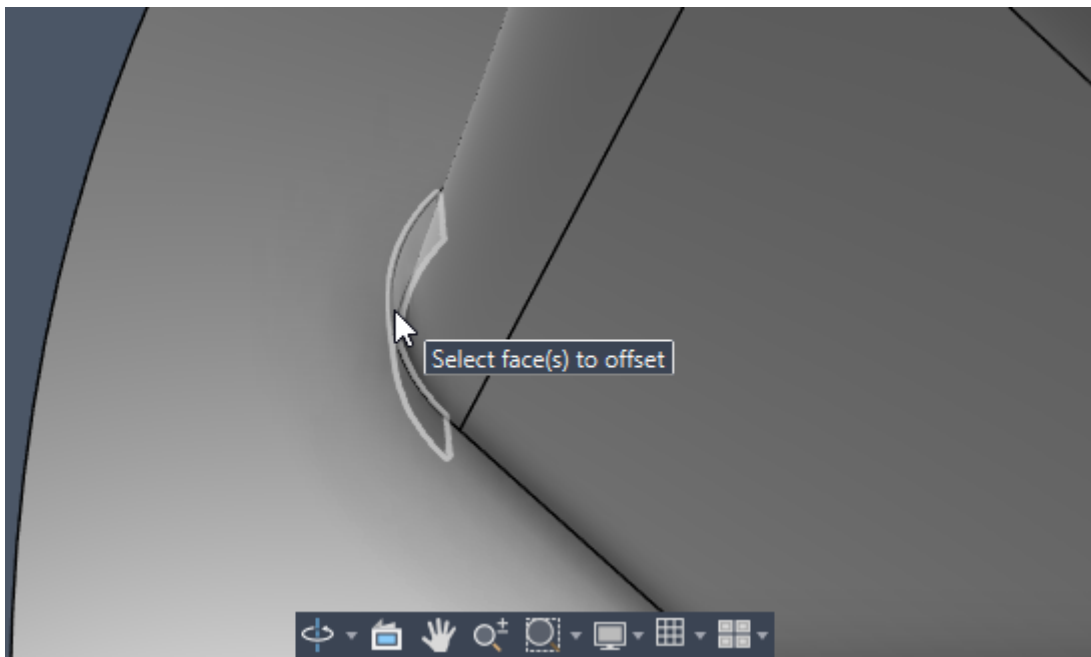
Use Sketch Dimension to define the radius (example: 35 mm).



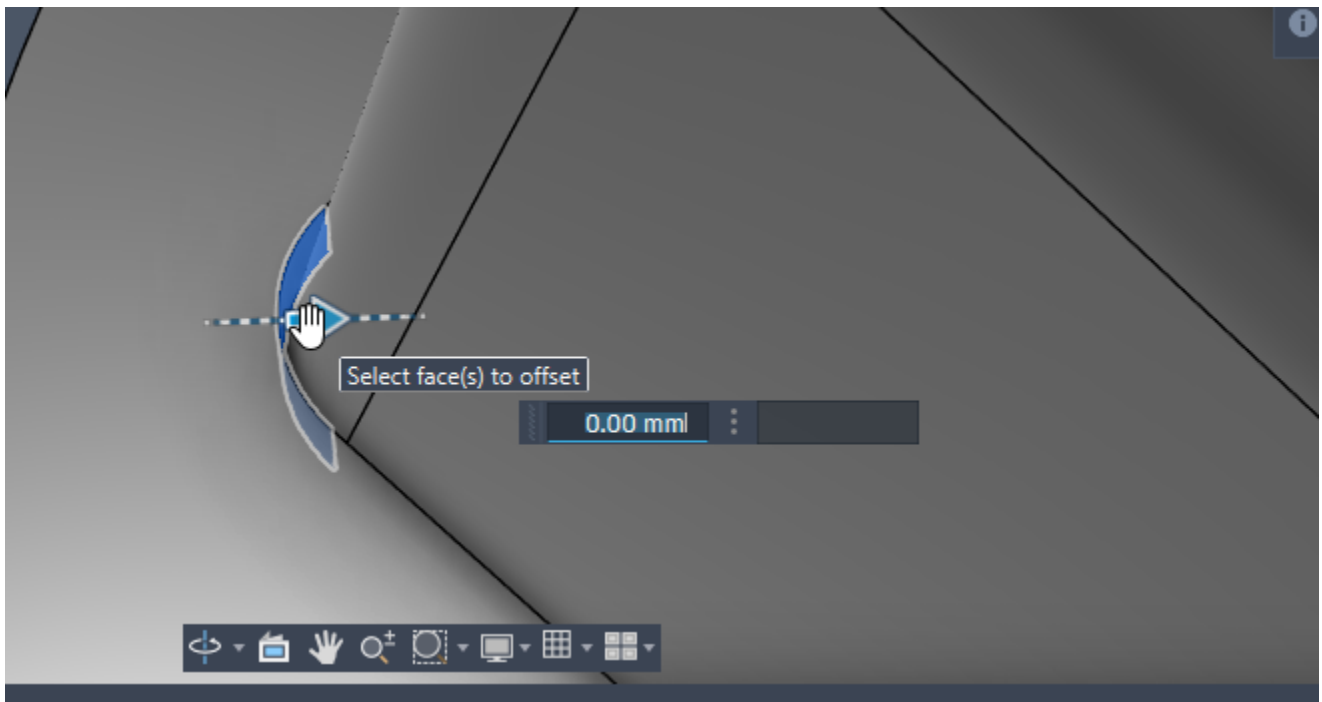
Apply a 2 mm Shell.



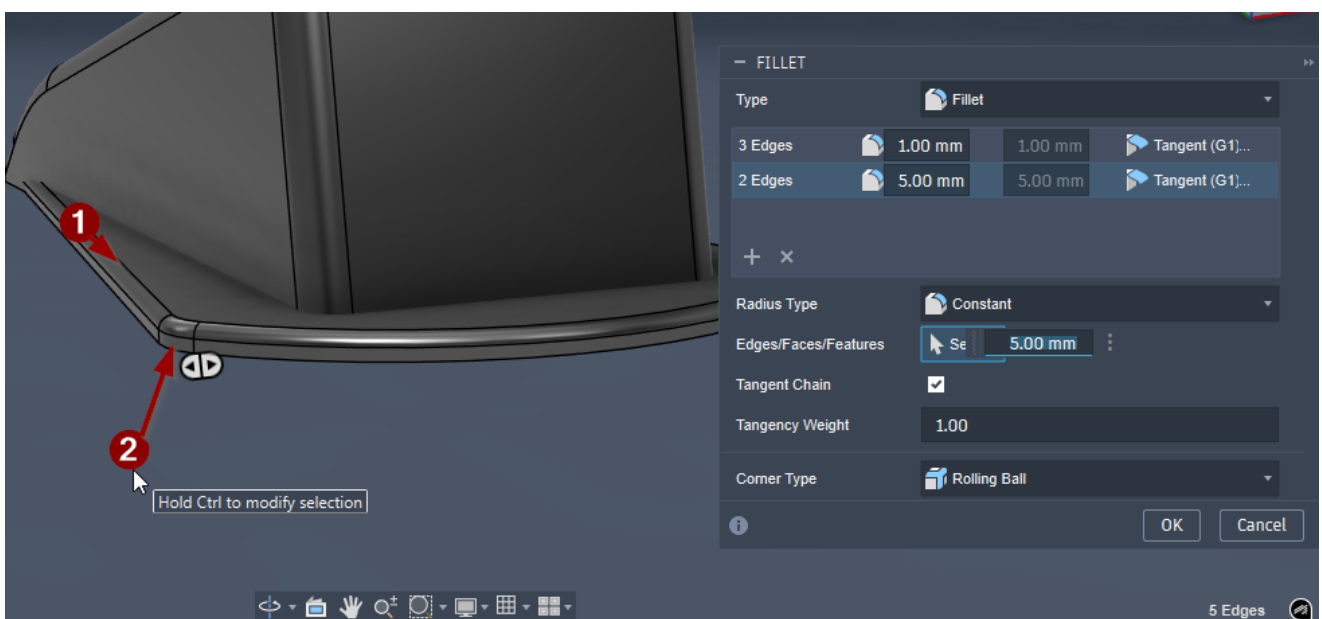
A gap appears — fix using Modify → Offset Face.



Select this inner face.

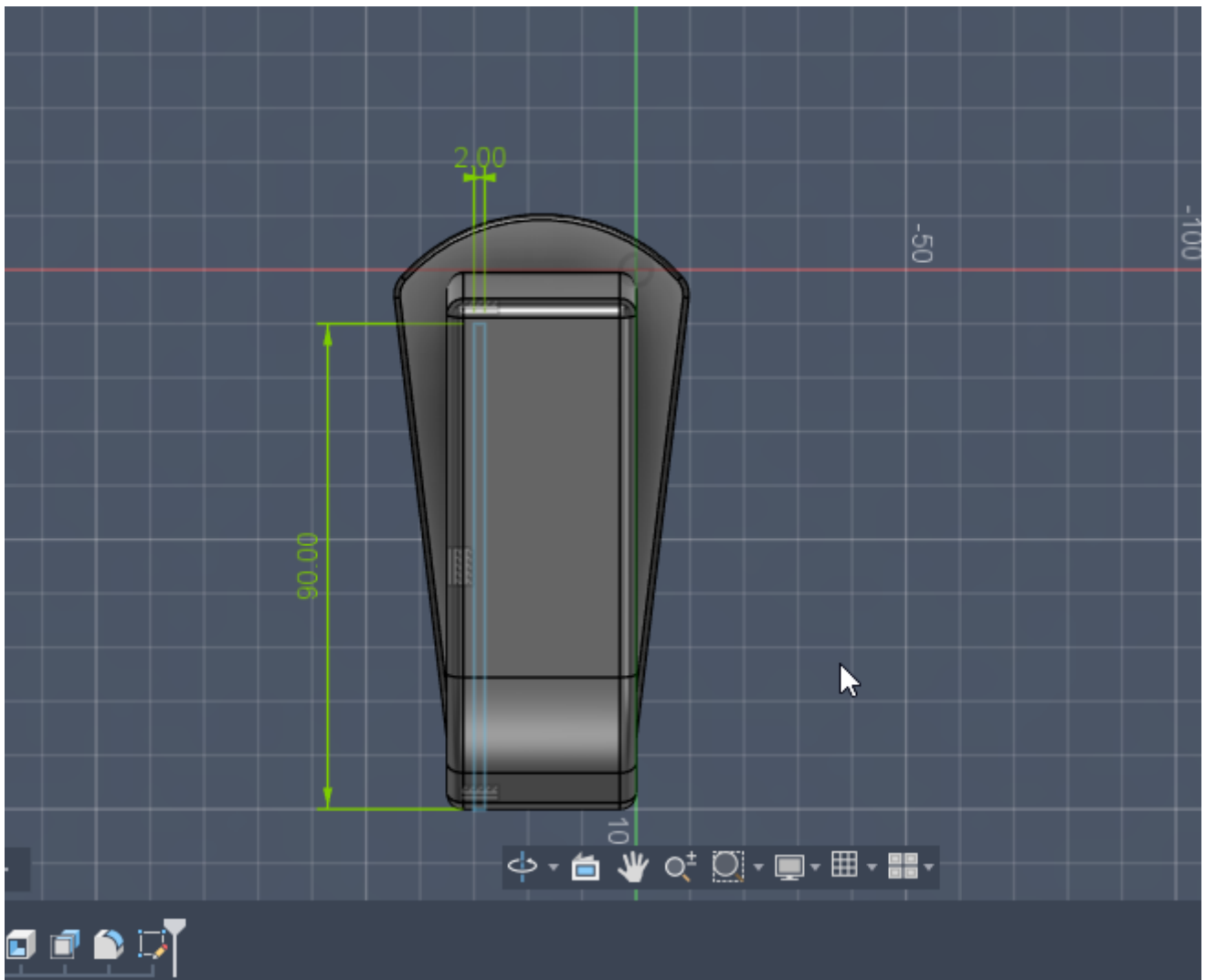


Offset it by +0.5 mm to close the gap.

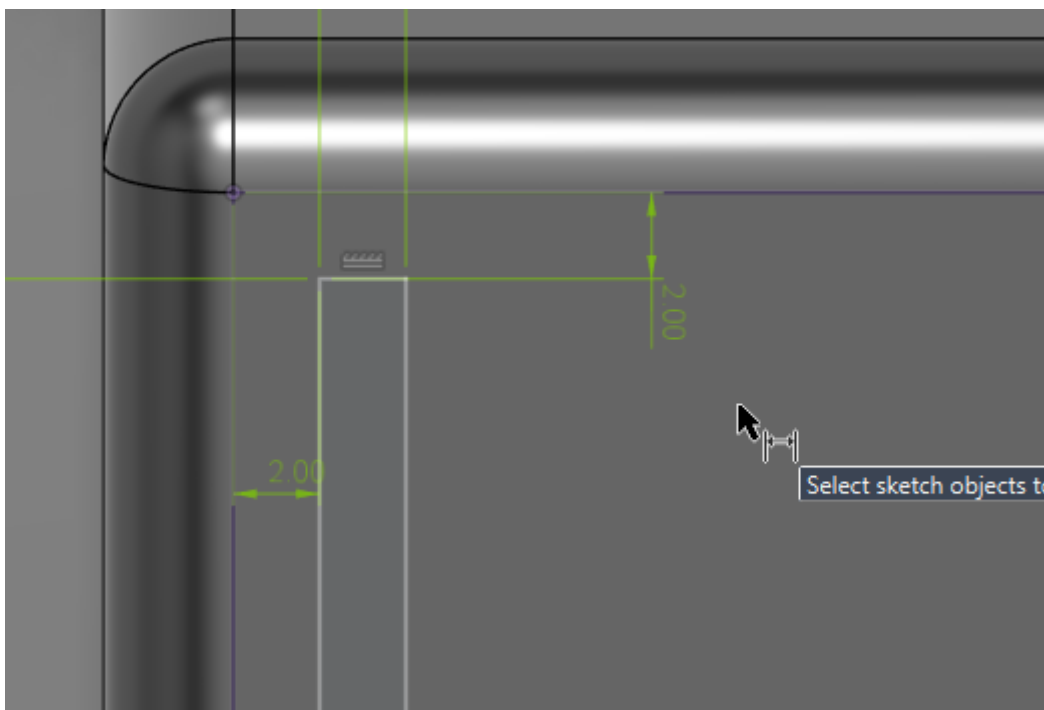


**Add fillets:

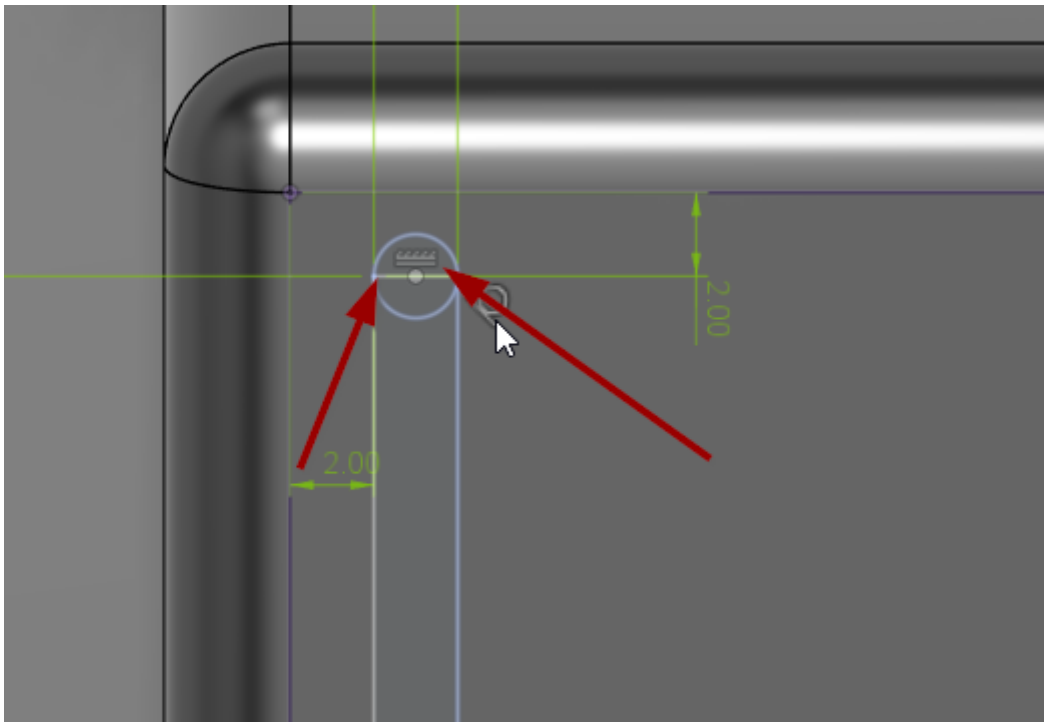
1. 1 mm fillet
2. 5 mm fillet



Draw a rectangle of the shown dimensions.

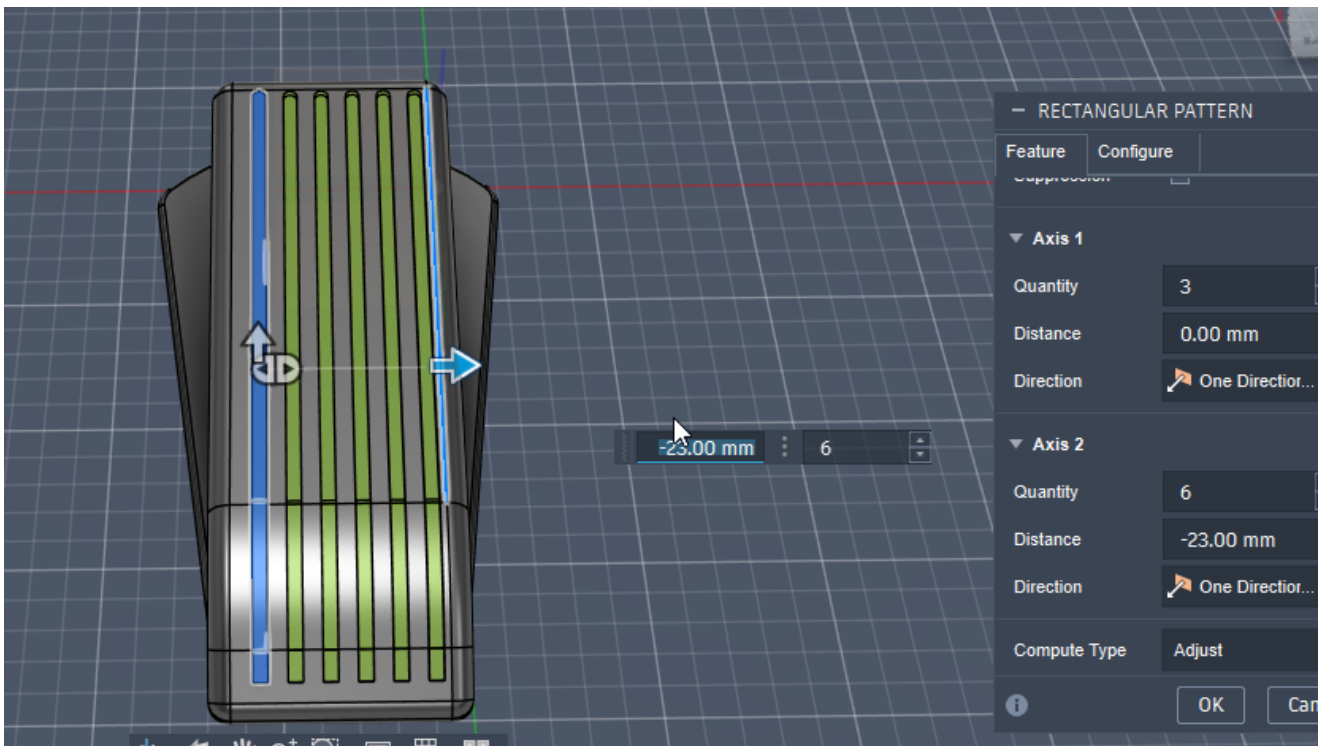


Use Sketch Dimension to position the rectangle this far from edges.



Add a 2-point circle → then go to Emboss.

****Uncheck Tangent Chain → select 4 profiles → Switch to Faces → select 3 top faces → OK.**



Use Rectangular Pattern for the embossed feature.