

Challenge exercise: Create an arm rest

Create a new pair of arm rests for an existing office chair

Complete the required activities:

- Open the supplied **Office Chair.rfa**.
- Create the arm rests according to the images shown below.
- Associate both arm materials to the Base/Arms Material parameter.

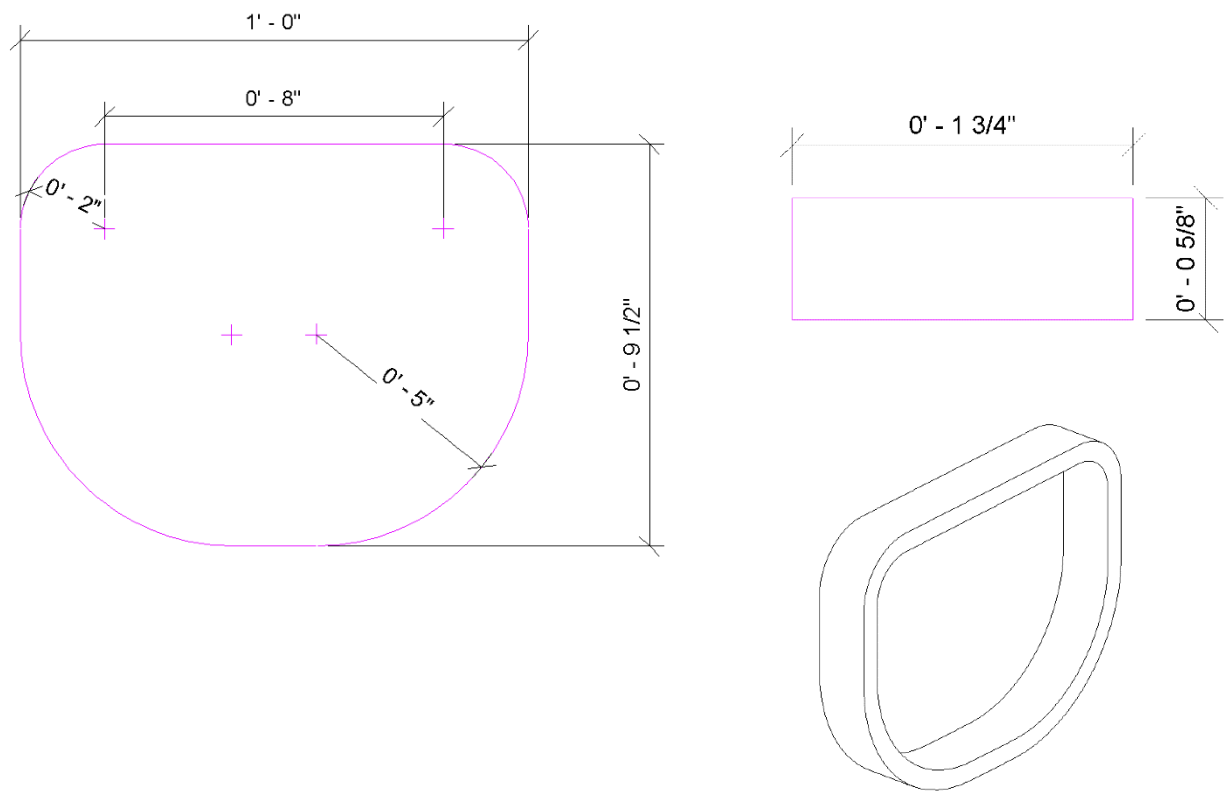


Figure 1. Arm Profile drawings

- Ensure that the new arms are constrained to the red reference planes shown in figure 2.

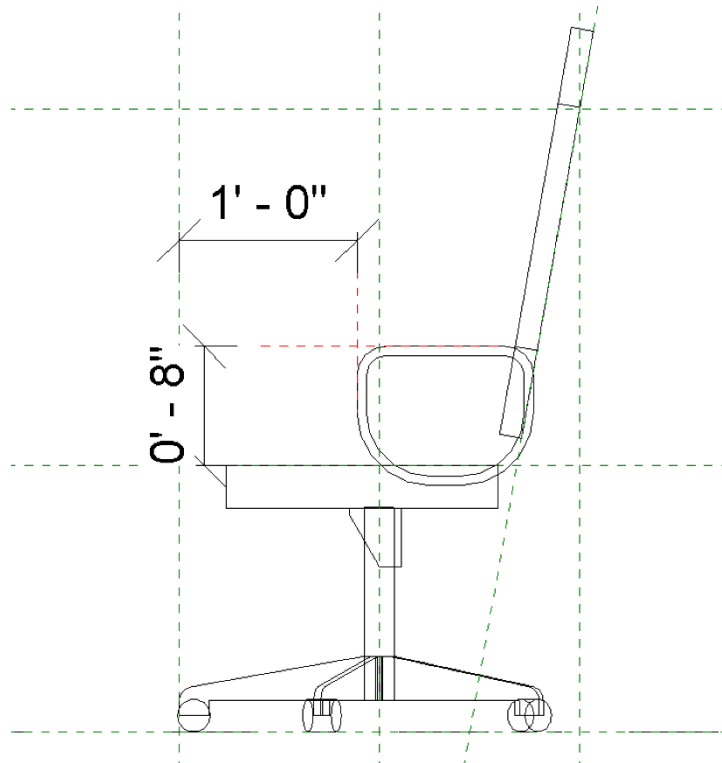


Figure 2. Office chair Left elevation

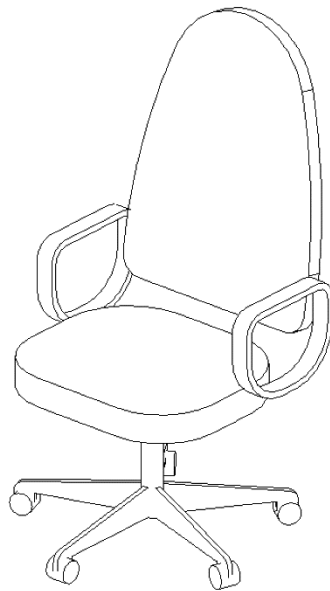


Figure 3. Finished office chair

Assessment Criteria

The finished exercise is available for comparison in the file ***Office Chair_Complete.rfa***.

Accuracy – 50% (-5% for each incorrect type)

- The overall dimensions of the sketch are correct.
- The radii are dimensionally correct.
- The profile is dimensionally correct.

Technique – 25%

- The arm has been created using a sweep.
- The sweep is aligned and constrained to reference planes.

Materials – 25%

- Both sweeps have their material and finishes associated to the Base/Arms Material parameter.