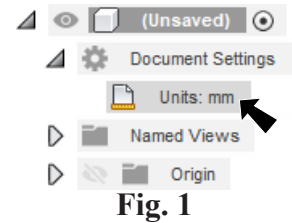


A. New Metric Document.

Step 1. Confirm new document and **units** are mm, Fig. 1.

B. Extrude.

Step 1. On the Solid tab **SOLID** click **Create Sketch**  in the Sketch area of toolbar and click **Right plane**  in canvas, Fig. 2.

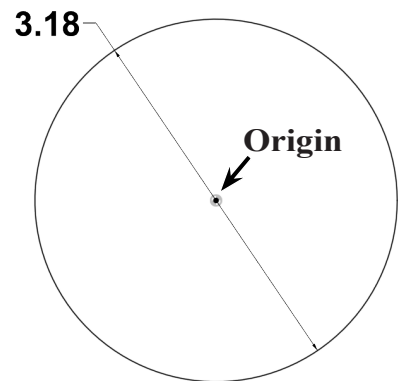


Step 2. Click **Center Diameter Circle**  (C) in the Create area of toolbar.

Step 3. Sketch **circle** at the Origin , Fig. 2.

Step 4. Click **Dimension**  (D) on the toolbar.

Step 5. Dimension circle **diameter 3.18**, Fig. 2.



Step 6. On the Solid tab **SOLID** click **Extrude**  (E).

Step 7. In the Extrude panel set, Fig. 3

Start **Profile Plane**

Direction **Symmetric** 

Measurement **Whole Length** 

Distance **48**

click OK.

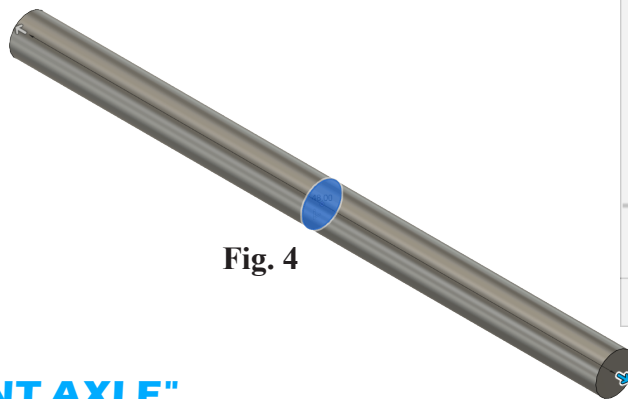


Fig. 4

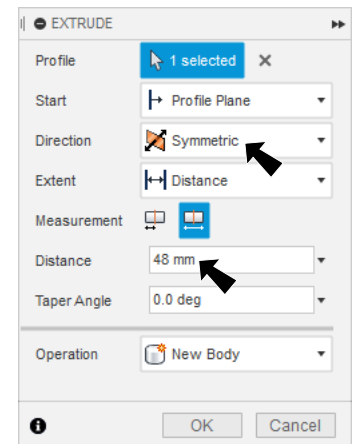


Fig. 3

C. Save as "FRONT AXLE".

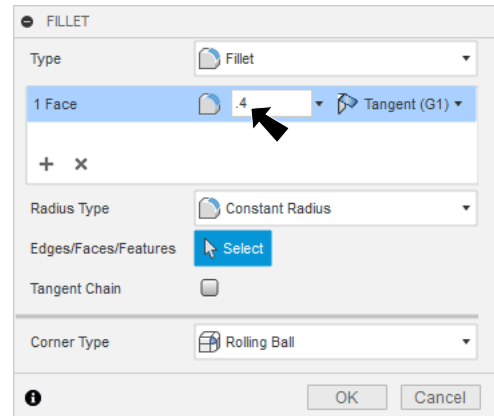
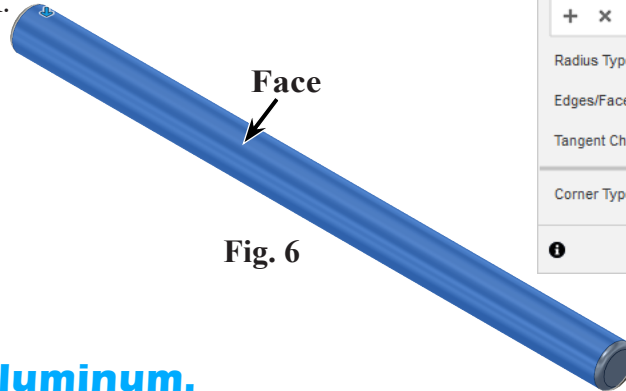
Step 1. Click File Menu > Save.

Step 2. In the Save dialog box:
Key-in **FRONT AXLE** for filename
Confirm **folder is RAIL FORM**
click Save.

D. Fillet Edges.

Step 1. On the Solid tab **SOLID** click **Fillet**  (F) in the Modify area of toolbar.

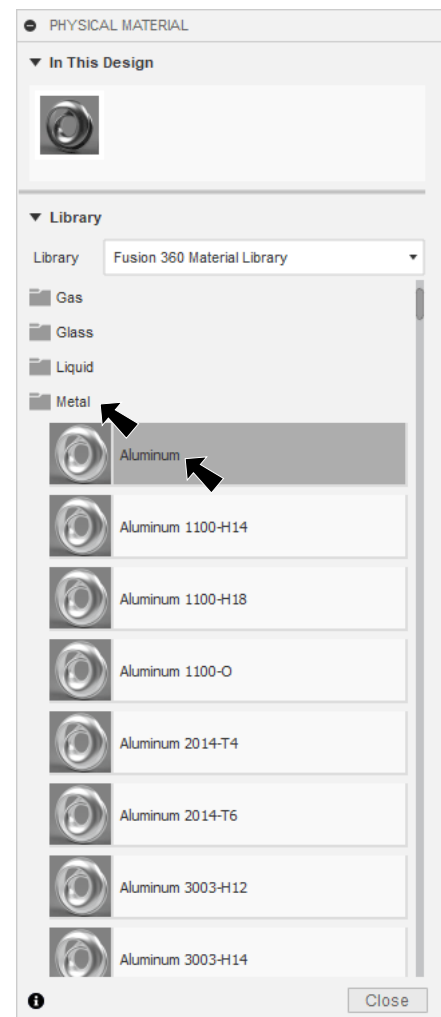
Step 2. In the Fillet panel set, **Fig. 5**
click **cylindrical axle face**, **Fig. 6**
Radius .4
click OK.



E. Material Aluminum.

Step 1. On the Solid tab **SOLID** click Modify Menu > Physical Material.

Step 2. In the Physical Material Panel:
under Library, **Fig. 7**.
expand **Metal**
drag **Aluminum** onto the body in canvas, **Fig. 8**.
Close panel.



F. Save as "REAR AXLE".


Step 1. Save.

Use **Ctrl-S** and press ENTER to save FRONT AXLE.
Very important to save here.

Step 2. Click File Menu > Save As.

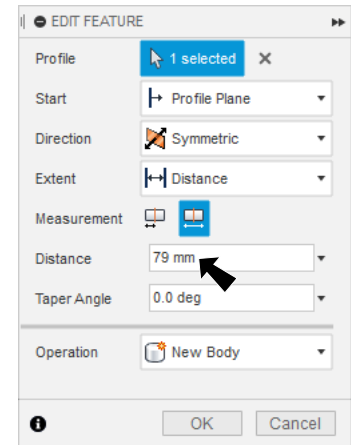
Step 3. Key-in **REAR AXLE** for the filename.
You now have two axle files, FRONT and REAR. Next,
we change length of REAR axle.

G. Change Extrude Depth.

Step 1. Edit Axle Extrude. To edit, **double click Extrude1**  in the Timeline, **Fig. 9**.



Step 2. In the Extrude panel set, **Fig. 10**
Distance **79**
click OK.



Step 3. Save. **Ctrl-S** and press ENTER.

You should have 2 axles:

FRONT 48 mm

REAR 79 mm

