



A. Sketch.

Step 1. Click File Menu > New, click **Part** and OK.

Step 2. Click **Top Plane**  in the Feature Manager and click **Sketch**  on the context toolbar, **Fig. 1**.

Step 3. Click **Circle**  (S) on the Sketch toolbar.

Step 4. Sketch a circle starting at the Origin , **Fig. 2**.

Step 5. Click **Smart Dimension**  (S) on the Sketch toolbar.

Step 6. Dimension circle **diameter .5**, **Fig. 2**.

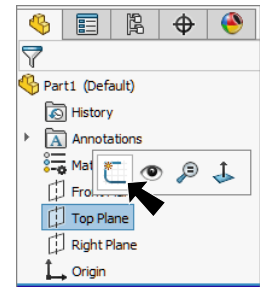


Fig. 1

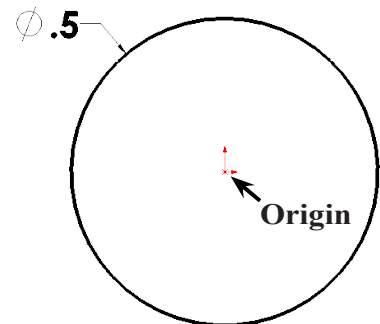


Fig. 2

B. Save as "ROD".

Step 1. Click File Menu > Save As.

Step 2. Key-in **ROD** for filename and press ENTER.

C. Extrude.

Step 1. Click **Features**  on the Command Manager toolbar.

Step 2. Click **Extruded Boss/Base**  on the Features toolbar.

Step 3. In the Boss-Extrude Property Manager set:
under Direction 1, **Fig. 3**

Depth  **3.6**
click OK .

Step 4. Save. Use **Ctrl-S**.

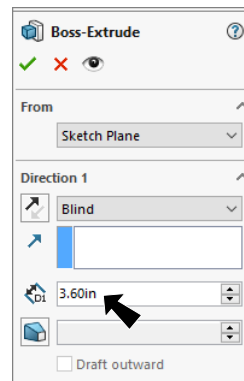


Fig. 3

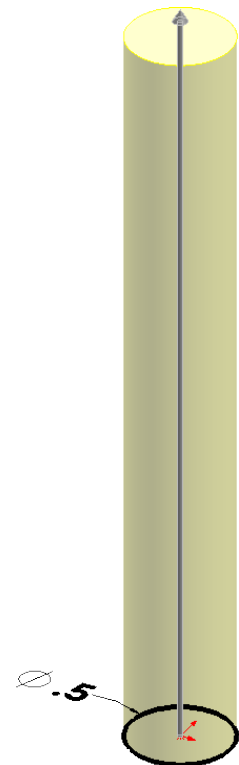
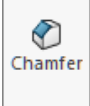


Fig. 4

D. Chamfers.

Step 1. Click **Chamfer**  on the Features toolbar.

Step 2. In the Chamfer Property Manager set:
under Chamfer Type, **Fig. 5**

select **Angle Distance**

click **top edge**, **Fig. 6**

under Chamfer Parameters

Distance  .05

Angle  45°

click OK .

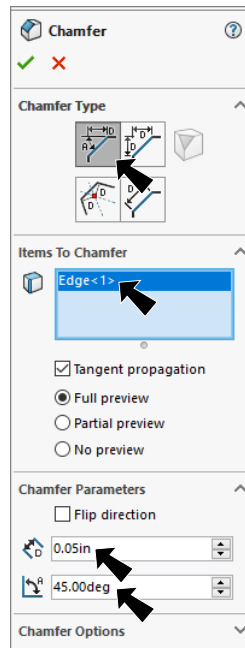


Fig. 5

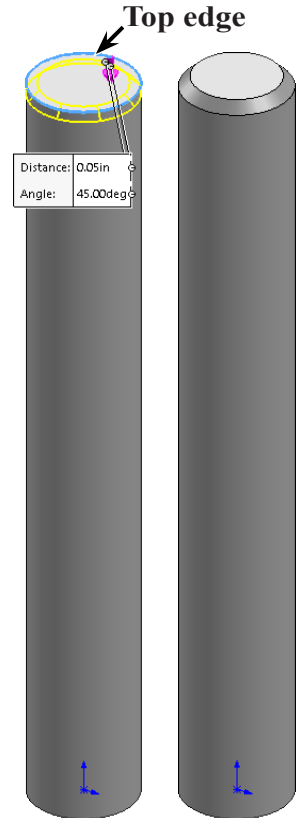


Fig. 6

Fig. 7

E. Material Steel.

Step 1. **Right click** **Material**  in the Feature Manager and click **Edit Material**, **Fig. 8**.

Step 2. Expand **Steel** in the material tree and select **Plain Carbon Steel**. Click **Apply** and **Close**.

Step 3. Save. Use **Ctrl-S**.

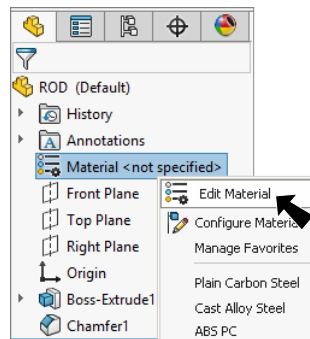


Fig. 8



Fig. 9