

A. Sketch.

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

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

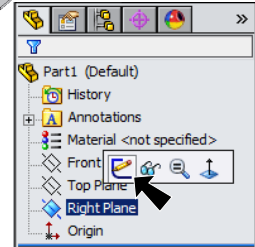




Fig. 1

Step 3. Click **Line**  (L) on the Sketch toolbar.

Step 4. Draw **two lines**, **Fig. 2**. Draw one line down vertically from Origin . Draw second line **at slight angle up from bottom endpoint of 1st line**.

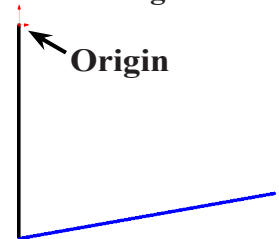


Fig. 2

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

Step 6. Dimension lines **.78** and **.95** and angle **80**, **Fig. 3**.

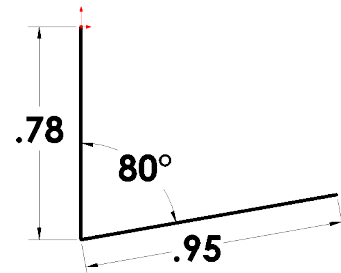


Fig. 3

B. Save as "V STAB".

Step 1. Click File Menu > Save As.

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

C. Second Set of Lines.

Step 1. Click **Line**  (L) on the Sketch toolbar.

Step 2. Draw **5 lines**, **Fig. 4**. No horizontal or vertical lines.

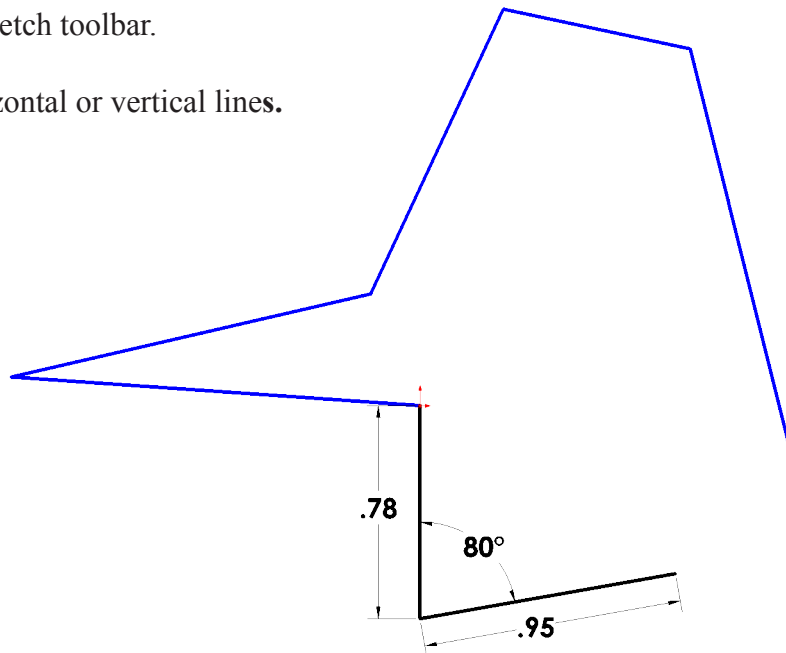


Fig. 4

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

Step 4. Add dimensions, **Fig. 5**. Dimension the angles first. **Tip:** After selecting line to dimension, move cursor until preview indicates the parallel dimension type, then **right click to lock position**.

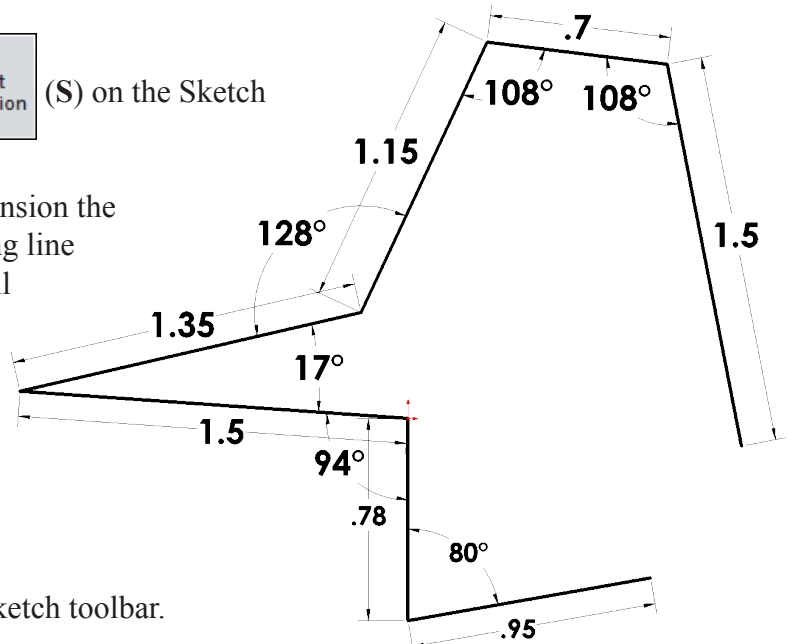



Fig. 5

D. Style Spline.

Step 1. Click **Style Spline**  in the **Spline flyout**  on the Sketch toolbar.

Step 2. Draw a **3 control vertex point Spline**, **Fig. 6**. Press Escape to end spline.

Step 3. **Ctrl click the right control polygon segment and line** to select both. Release Ctrl key and click **Make Collinear**  on the Context toolbar, **Fig. 7**.

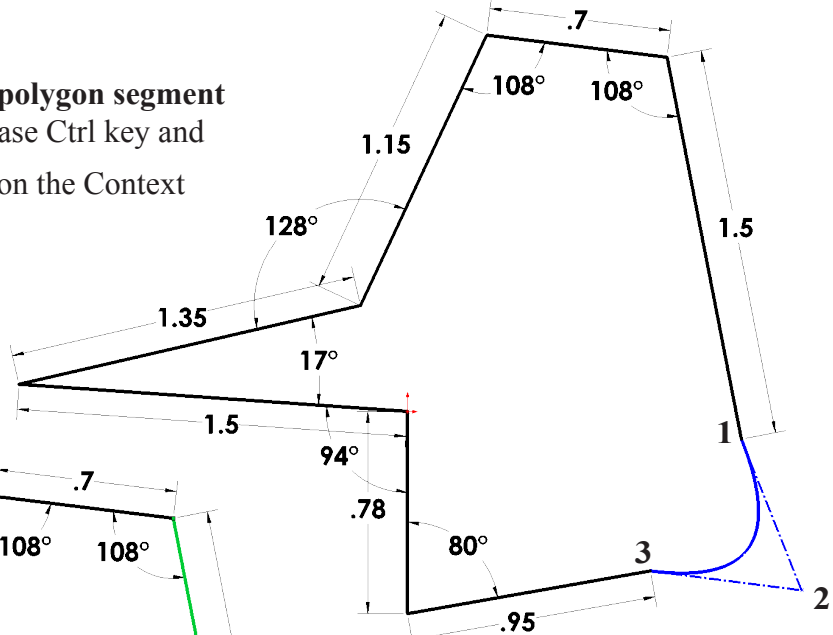


Fig. 6

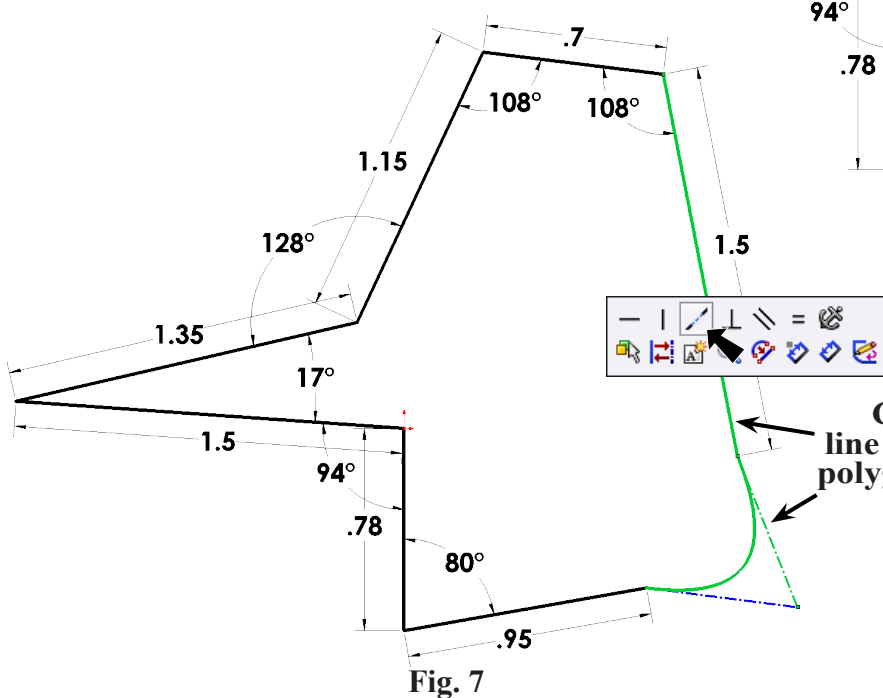

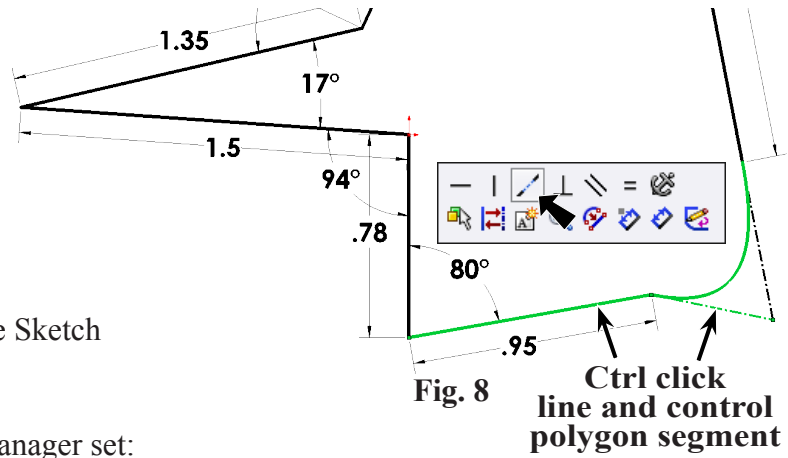


Fig. 7

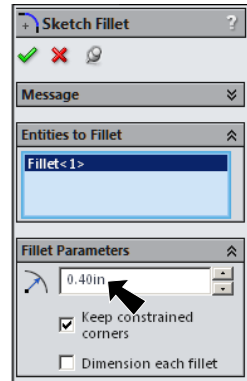
Step 4. Click **bottom control polygon segment and line**. Release Ctrl key and click **Make Col-linear**  on the Context toolbar, **Fig. 8**.



E. Sketch Fillets.

Step 1. Click **Sketch Fillet**  on the Sketch toolbar.

Step 2. In the Sketch Fillet Property Manager set: under Fillet Parameters, **Fig. 9**



Radius  **.4**
click **128° intersection**, **Fig. 10**

click **OK** 

Radius  **.3**
click **top front corner**, **Fig. 11**

click **OK** 

Radius  **.2**
click **top rear corner**, **Fig. 11**

click **OK**  **twice.**

Fig. 9

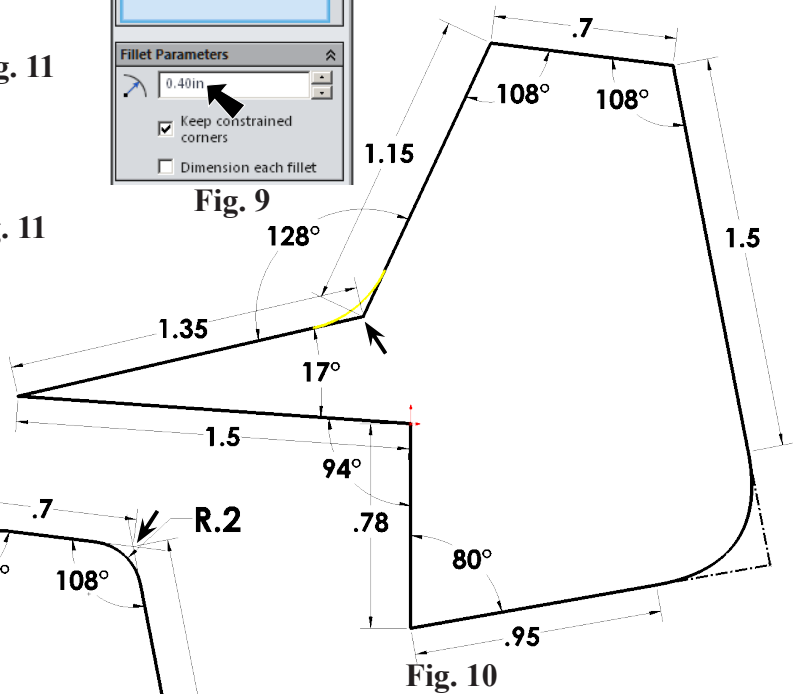


Fig. 10

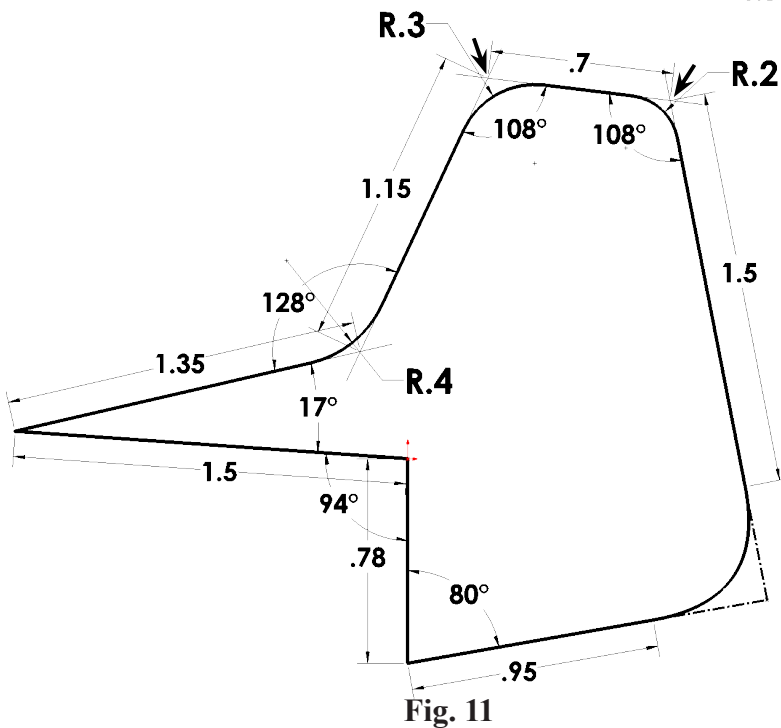
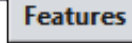


Fig. 11

F. Extrude.

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

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

Step 3. In the Property Manager set:
 under Direction 1, **Fig. 12**
 End Condition **Mid Plane**

Depth  **.1**
 click OK .

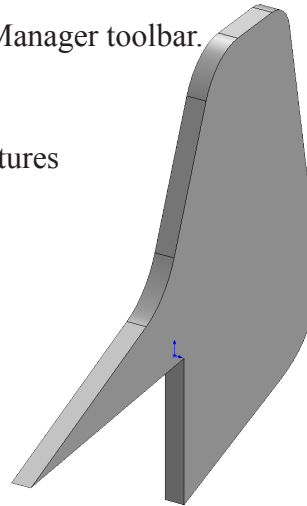


Fig. 13

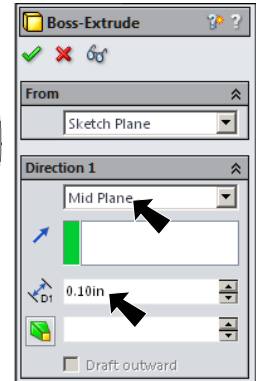
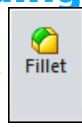




Fig. 12

G. Fillet Leading, Root and Trailing Edges.

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

Step 2. In the Fillet Property Manager:
 select **Manual**, **Fig. 14**
 under Fillet Type




select **Full Round Fillet** 
 in **Side Face Set 1**  box
 click **side face**, **Fig. 15**

right click to move selection to next
 selection box

 **Center Face Set**  box, **Fig. 14**

right click leading edge face and select **Select Tangency** from
 menu, **Fig. 16**.

Right click to move
 selection to next
 selection box.

 **Side Face Set 2** 
 box
 click **side face**, **Fig. 17**
 click OK .

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

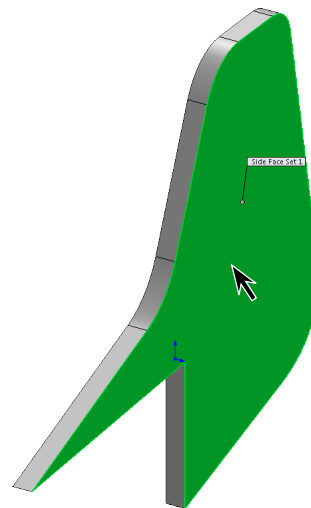


Fig. 15

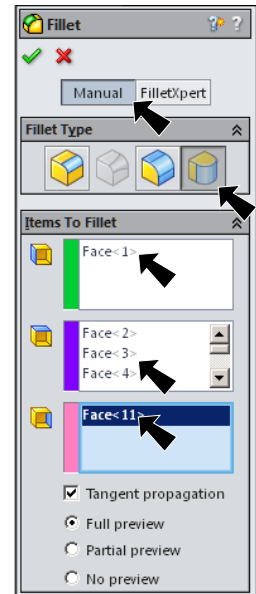


Fig. 14

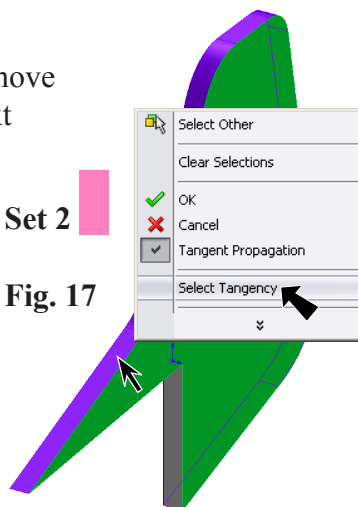


Fig. 16

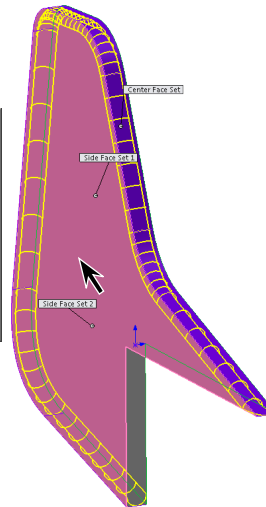


Fig. 17

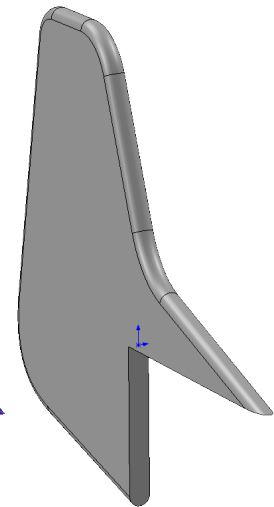






Fig. 18


H. Material PS HI (Polystyrene).

- Step 1. Right click **Material**  in the Feature Manager and click **Edit Material**.
- Step 2. **Expand Plastics** (click the +) in the material tree and select **PS HI**. Click **Apply** and **Close**.

I. Appearance Color.

Step 1. Click **Isometric**  on the Standard Views toolbar. (Ctrl-7)

Step 2. Click the part, expand **Appearance Callout**  on the Context toolbar and click **V STAB** , Fig. 19.

Step 3. In the Appearances Property Manager, under **Color**, Fig. 20 click **White** swatch click **OK** .

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

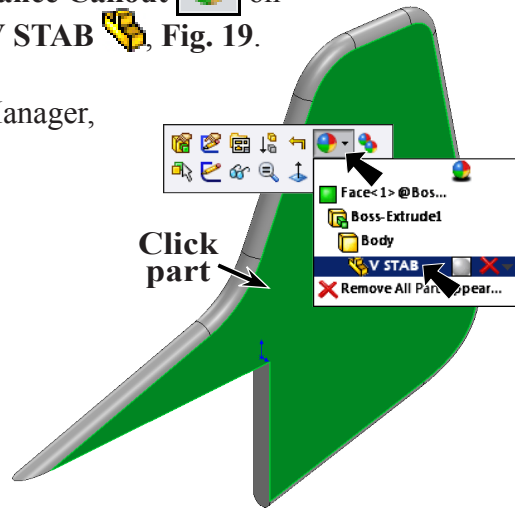


Fig. 19

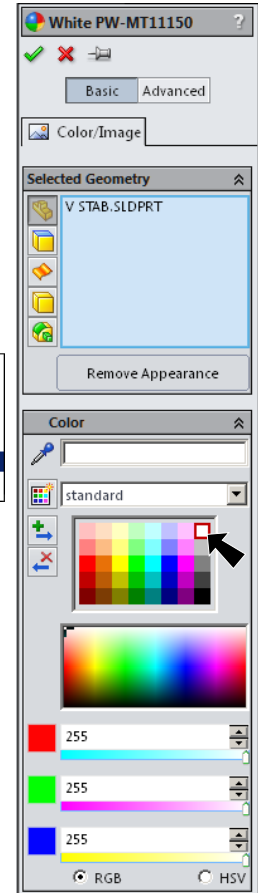


Fig. 20

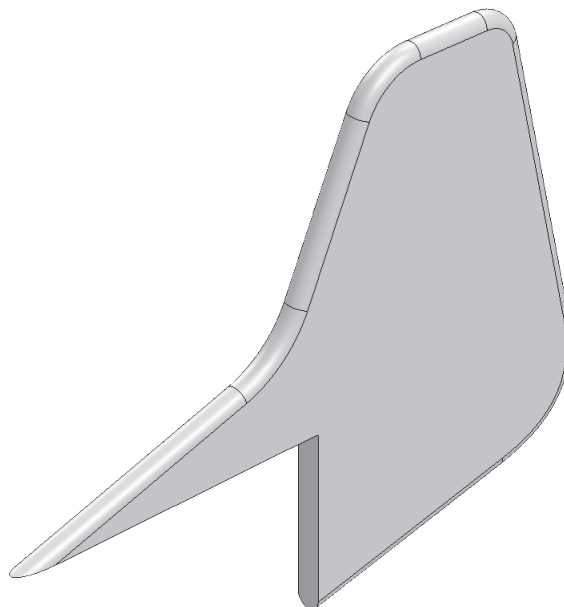


Fig. 21