

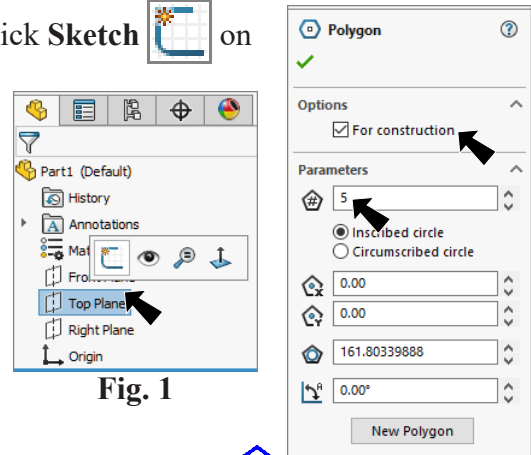
**A. Sketch Polygon.**

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

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

Step 3. Click **Polygon** on the Sketch toolbar.

Step 4. In the Polygon Property Manager set:  
 under Options, **Fig. 2**  
 check **For construction**  
 under Parameters  
 Number of sides **5**



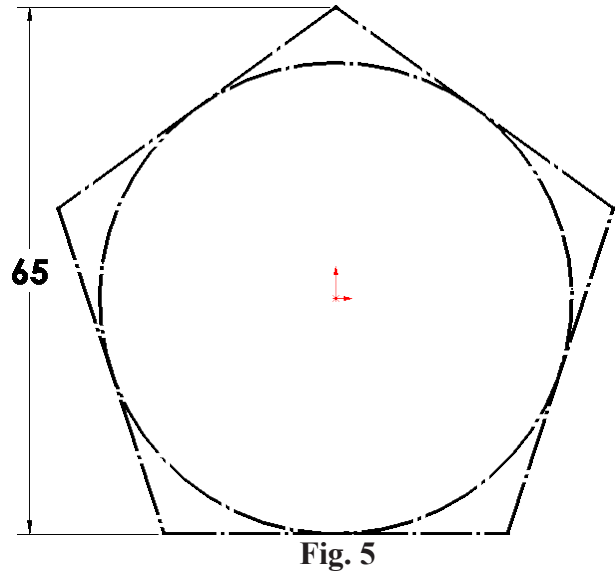
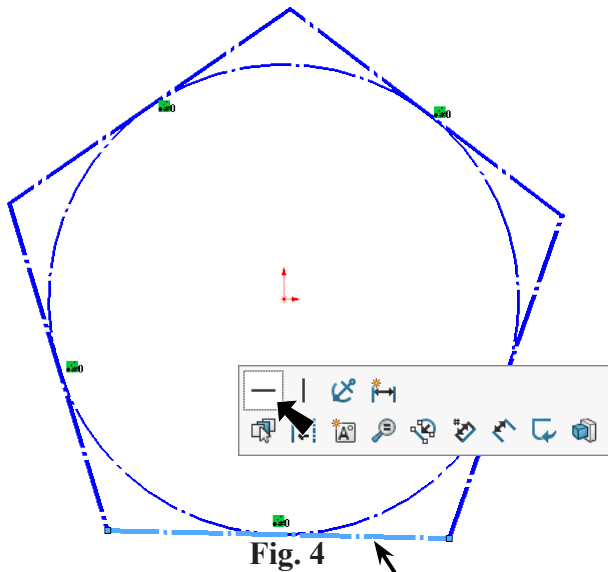
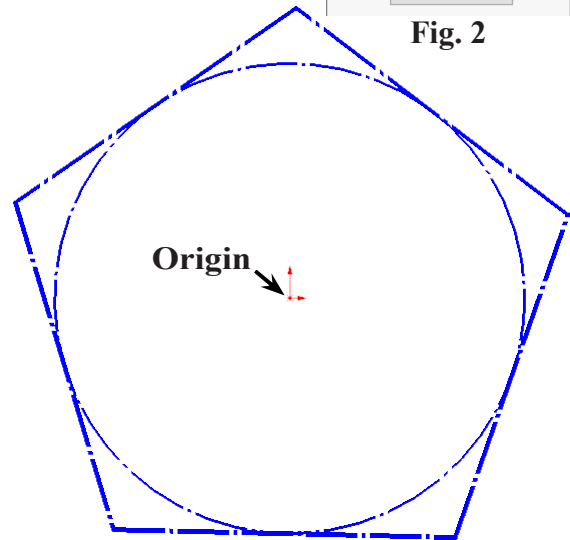
Step 5. Sketch a **polygon at Origin**, **Fig. 3**.

Step 6. **Right click graphics area and click Select** from menu to unselect Polygon tool.

Step 7. Click a **side of polygon** and click **Make Horizontal** on the context toolbar, **Fig. 4**.

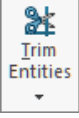
Step 8. Click **Smart Dimension** (S) on the Sketch toolbar.

Step 9. Dimension height **65**, **Fig. 5**.




Step 10. Click **Line**  (L) on the Sketch toolbar.

Step 11. Sketch **diagonal line segments from vertex to vertex**, Fig. 6.

Step 12. Click **Trim Entities**  (S) on the Sketch toolbar.

Step 13. In the Trim Property Manger:  
under Options, Fig. 7

select **Trim to closest** 

check **Keep trimmed entitles as construction geometry**

Trim segments between diagonals, Fig. 8

Click segments to trim.

Results shown in Fig. 9.

Click OK  when done.

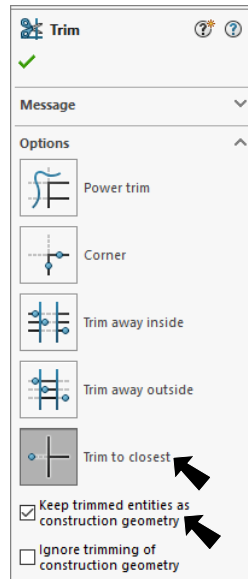


Fig. 7

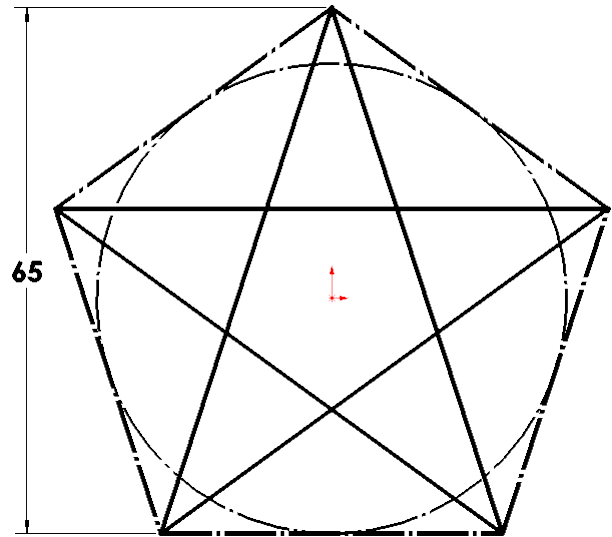


Fig. 6

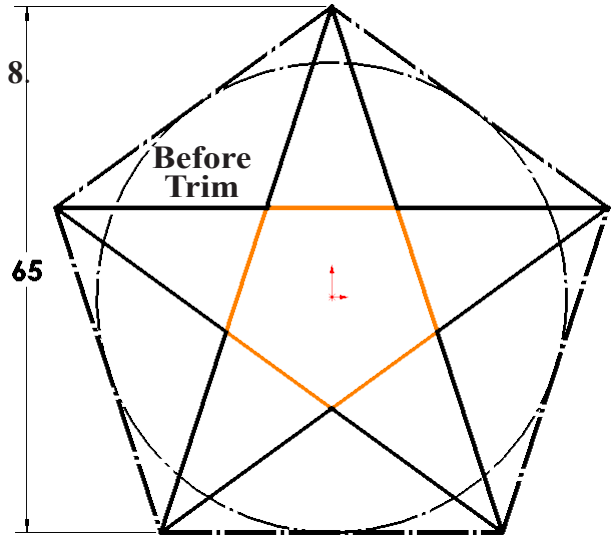


Fig. 8

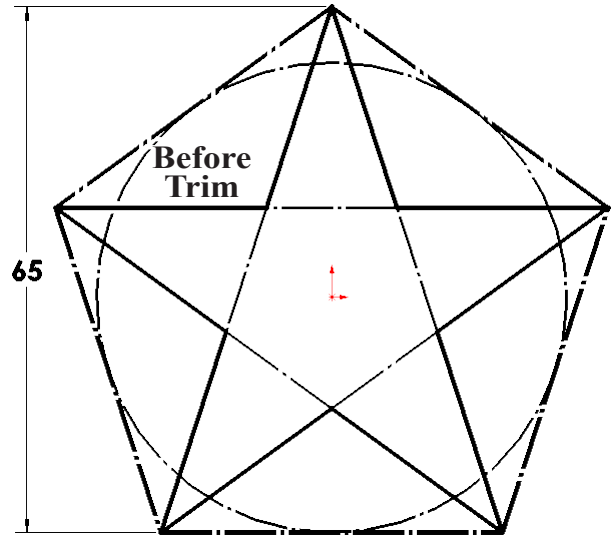


Fig. 9

## B. Save as "STAR".

Step 1. Click File Menu > Save As.

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

## C. Make Block.

Step 1. Click Tools Menu > Blocks > Make.

Step 2. In the Make Block Property Manager set:

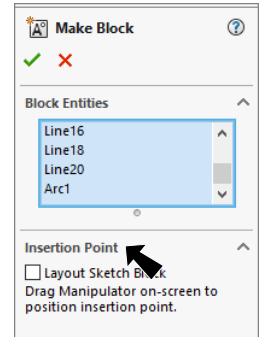
under Block Entities, **Fig. 10**

**drag selection across all, Fig. 11**

expand Insertion Point

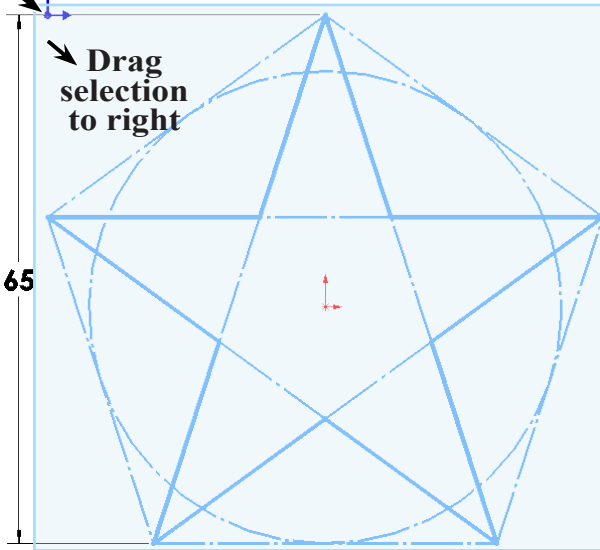
**drag Insertion Point Manipulator** to Origin, Fig. 11 - Fig. 12

click OK ✓.

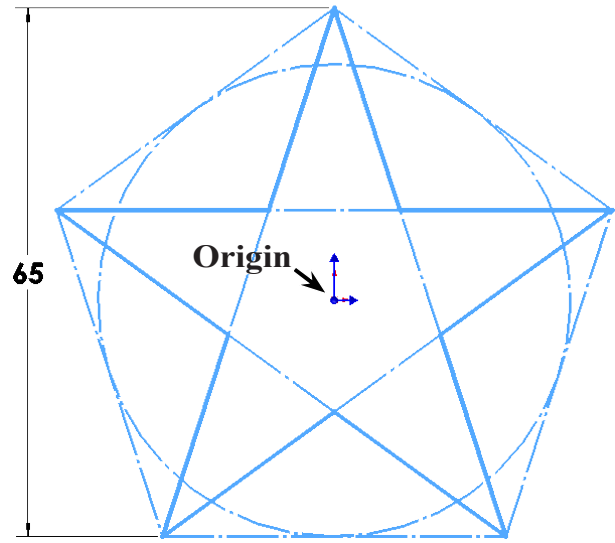


**Fig. 10**

**Drag  
Insertion  
Point to  
Origin**



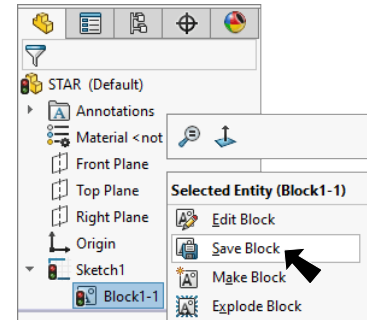
**Fig. 11**



**Fig. 12**

## D. Save Block.

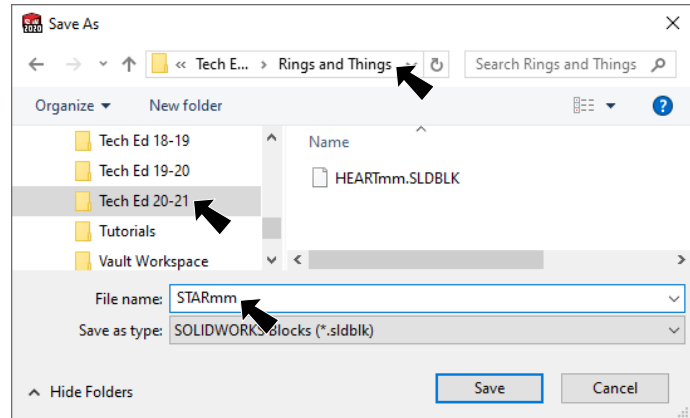
Step 1. **Right click Block1-1**  in the Feature Manager and click **Save Block** on the context toolbar, **Fig. 13**.



**Fig. 13**

Step 2. In the Save As dialog box, **Fig. 14**  
key-in **STARmm** for the filename  
navigate to **My Documents/Tech Ed 20-21/ Rings and Things folder**  
click Save button.

Step 3. **Do Not Save Star part file** with the Block as the Block deletes all dimensions and relations in sketch. Or you can undo creating the Block.



**Fig. 14**