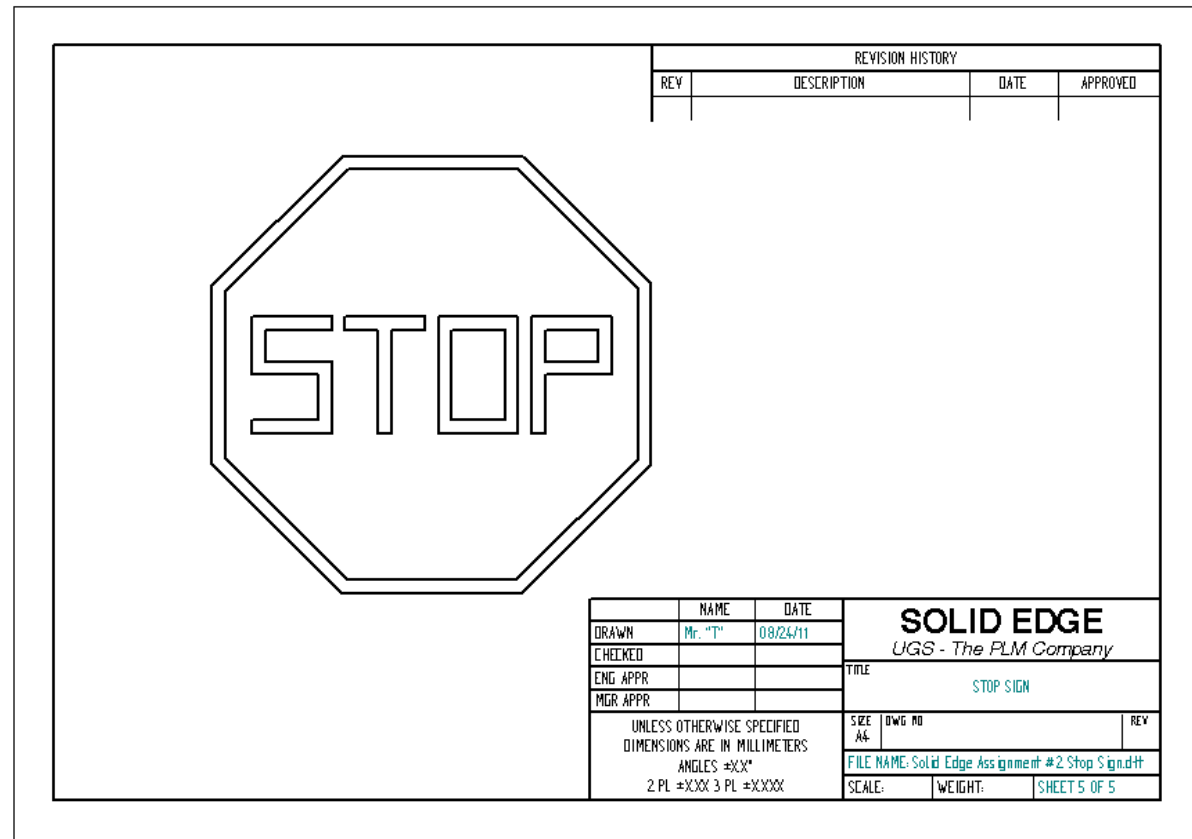


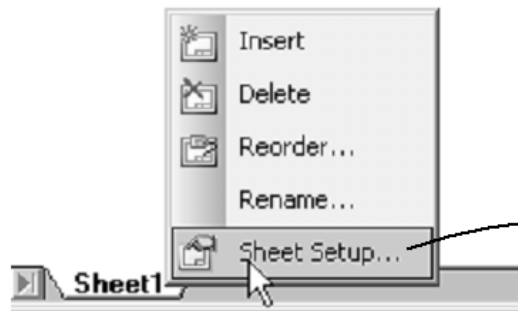
# Assignment #2: The Stop Sign

Using the techniques you learned in assignment one, plus some new ones you are going to learn you are to draw and print out *to size* "The Stop Sign" shown to the right.

Before you can start, the drawing file has to be *set up*. This is done in step one to four.

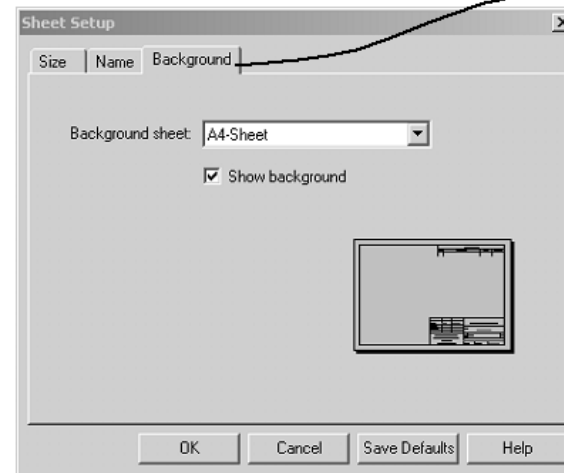


**Step one:** set sheet size to a metric A4 border and title block.

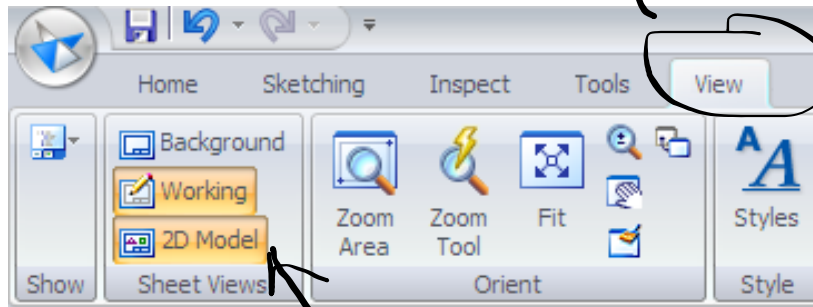


Right click on sheet tab and pick *sheet setup* from the menu

**Step two:** pick the *background* tab. Then pick the *A4 sheet*, once done click on the OK button. You will notice that the sheet size is smaller. Click on the Zoom fit button on the top tool bar.



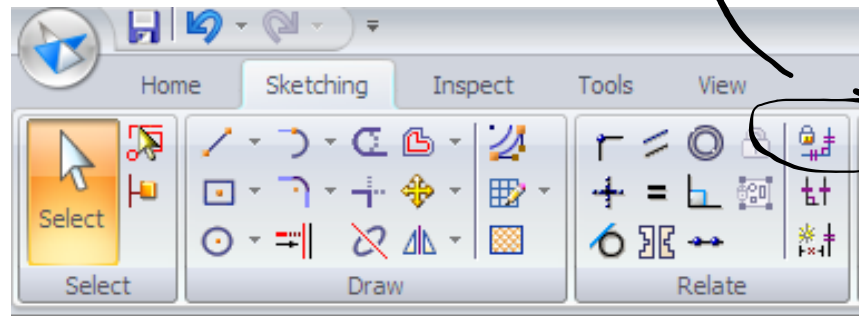
**Step three:** Make the 2D model sheet tab appear by clicking on the *2D model sheet* option under the *view* menu.



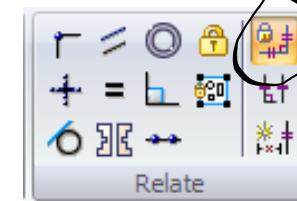
Then click on the 2D model *tab* at the bottom of the screen on the left hand side.

## Step four:

It is possible to have lines related to one another. However for this assignment make sure that the *maintain relationships option* is **turned on** under the *sketching menu*.

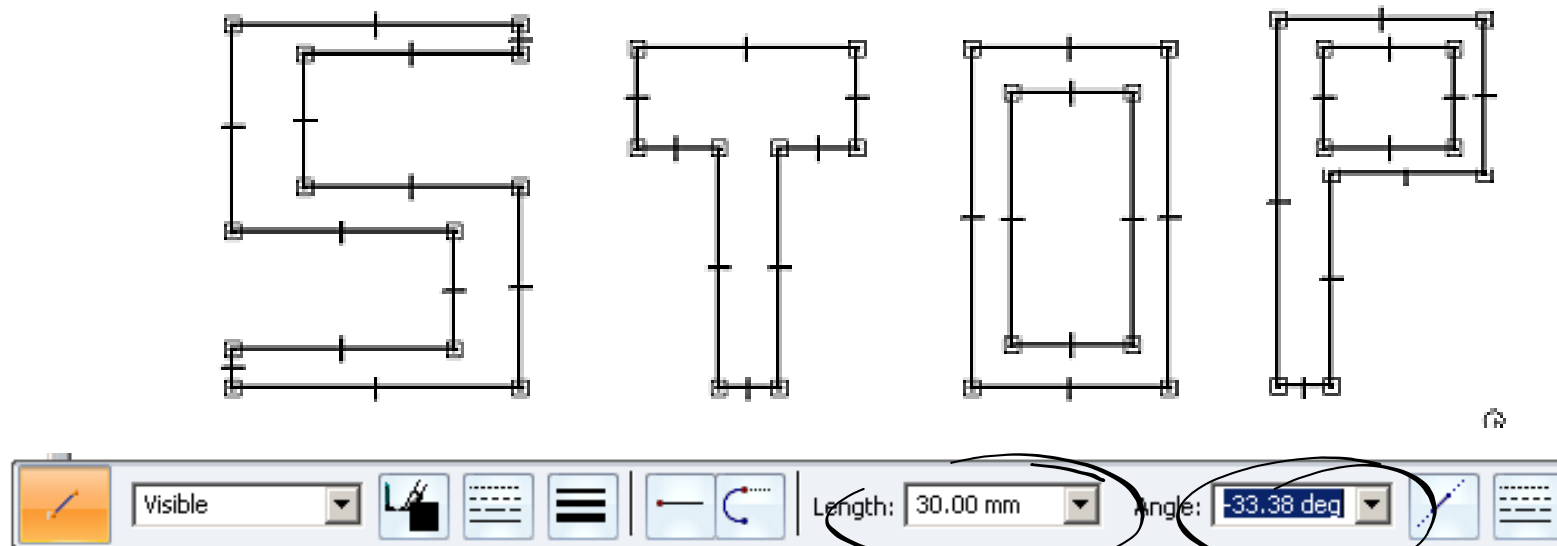


Maintain relationships on



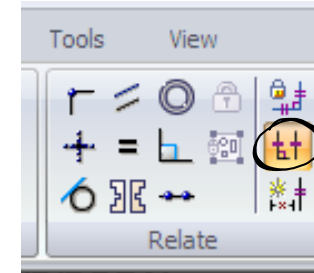
**Step five:**

Using the **2D model sheet environment** sketch out the word STOP using the line command. Make sure to use the *Intellisketch functions* to make lines horizontal and vertical. It helps if you make one of the letters approximately 30 mm wide.



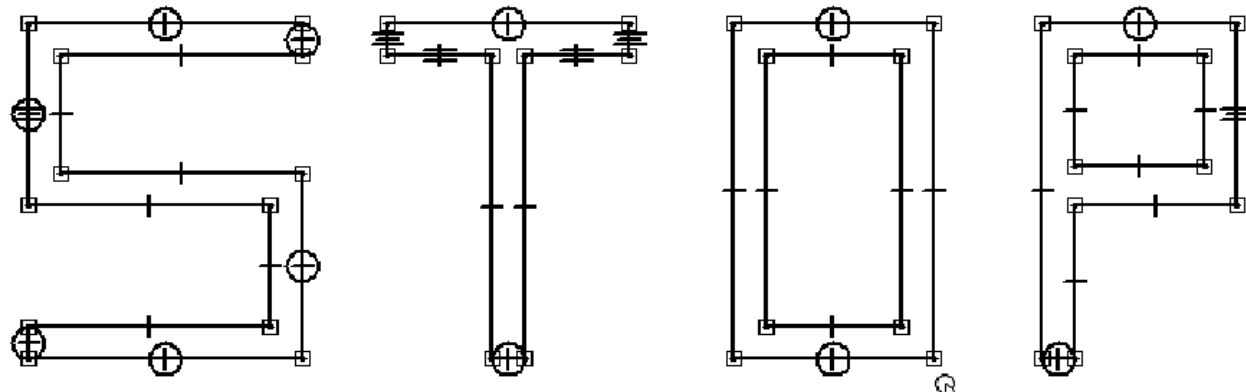
Length and angle of line in ribbon bar

Set the "*show handles*:" on to see the symbols.



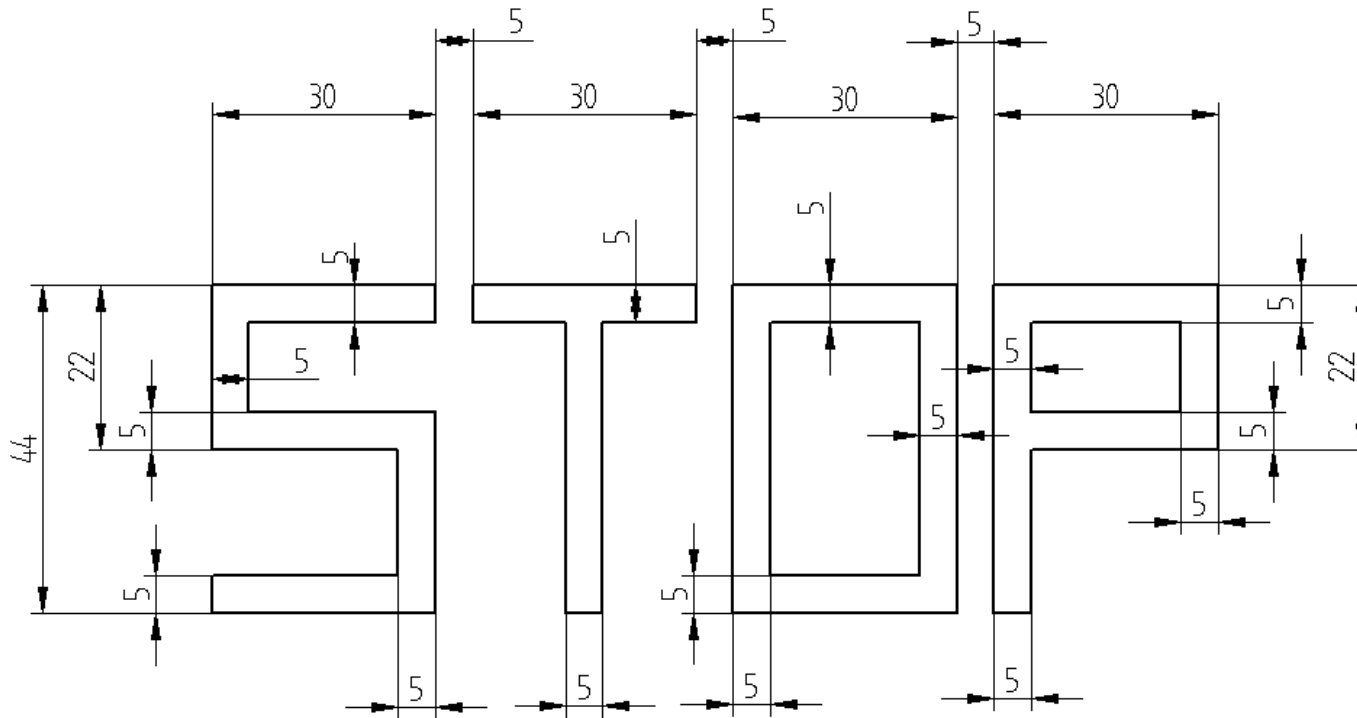
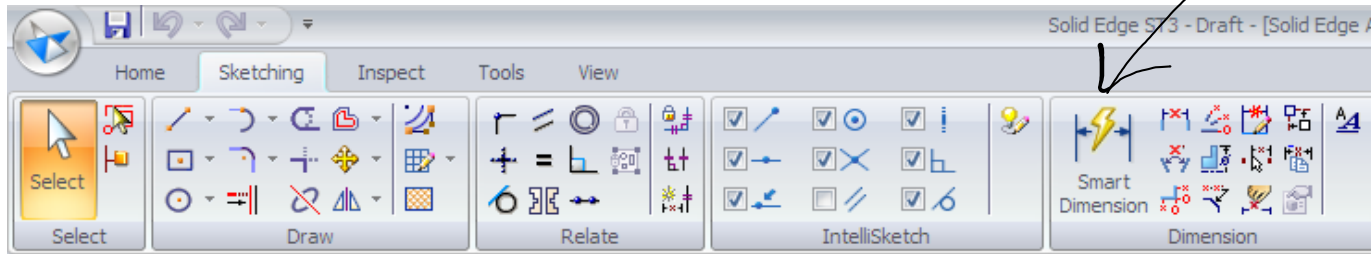
**Step six:**

Using the relationship commands set the lines to be *colinear* top and bottom of each letter. Set the top of the "T" to be *equal* side to side (*symmetric*). Then set both sides of the "S" to be *colinear*.



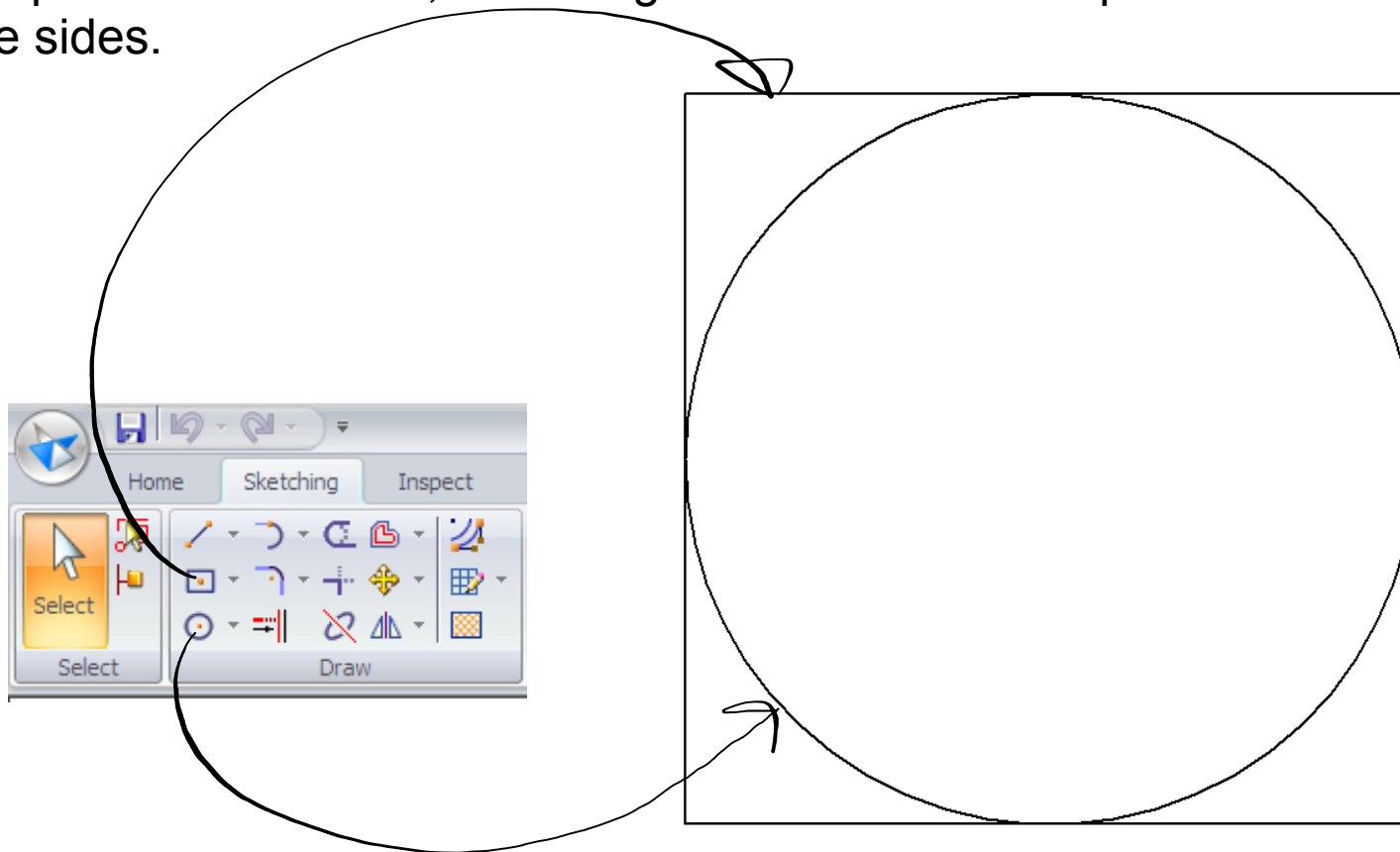
**Step seven:**

Using the *smart dimension command*, dimension the letters as shown below. All the letters should be as shown when done.



## Step eight:

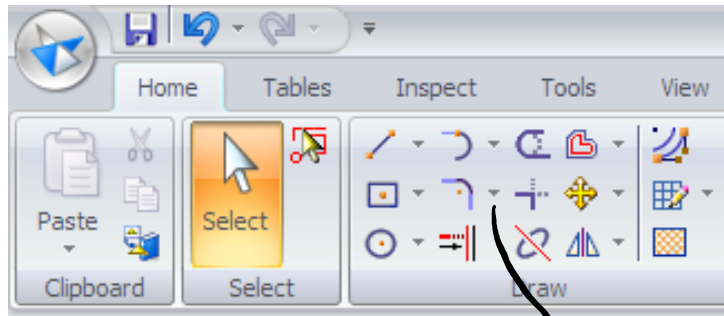
Off to the side of the letters use the *rectangle* command to draw a rectangle that measures 165 x 165 mm. Then use the *circle* command to place a circle in the centre of the rectangle. This can be done using the *IntelliSketch functions* to find two midpoints of the sides, then drag the circle to the midpoint of one the sides.




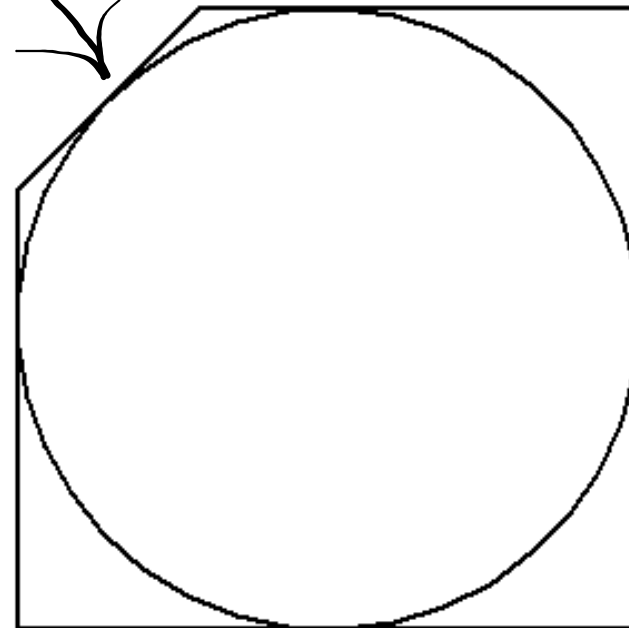


## Step nine:

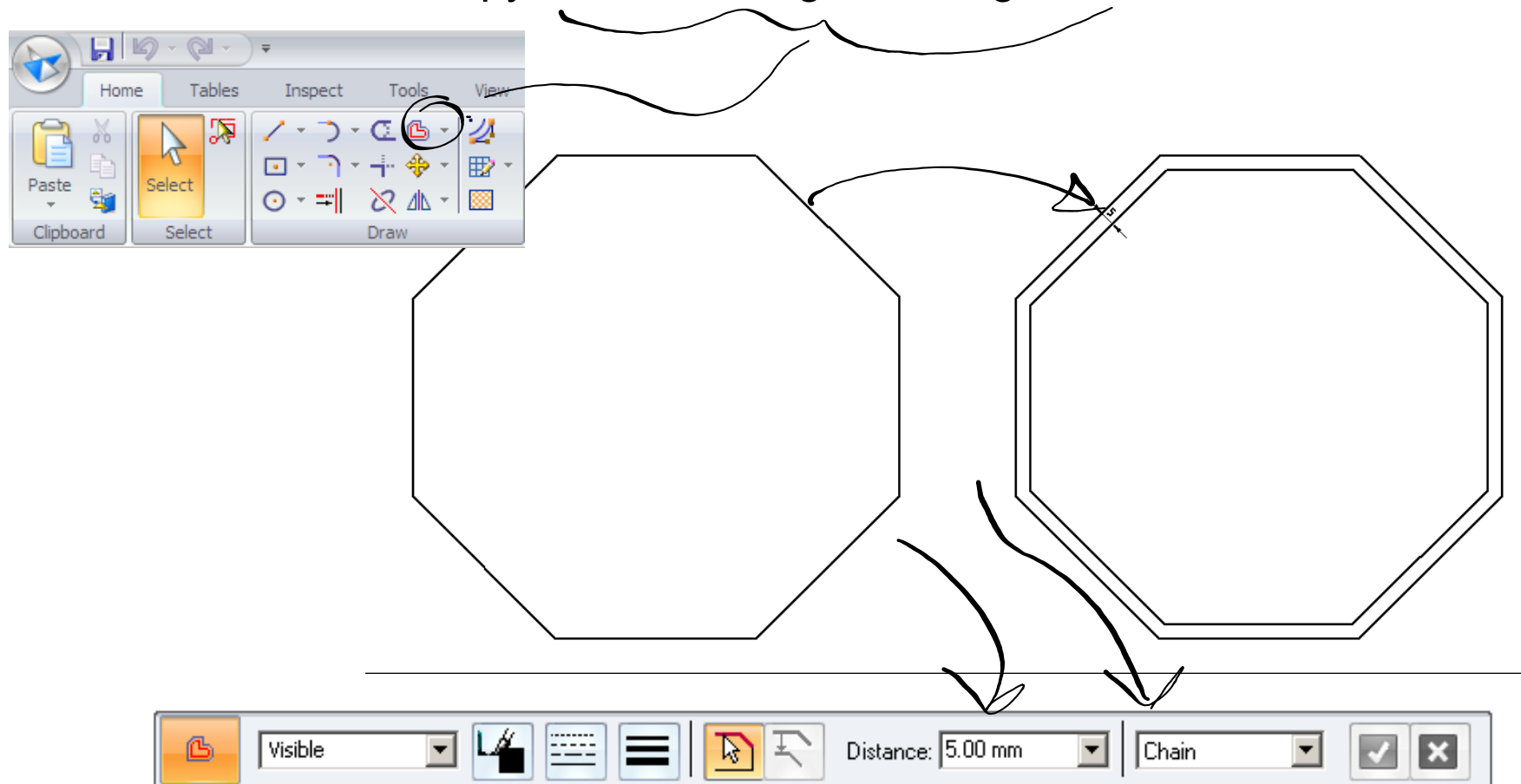
Use the chamfer command to drag the four corners of the rectangle to the point where they touch the circle. This is done by having the chamfer line touch the circle by "eye".



 Chamfer is under this fly out menu

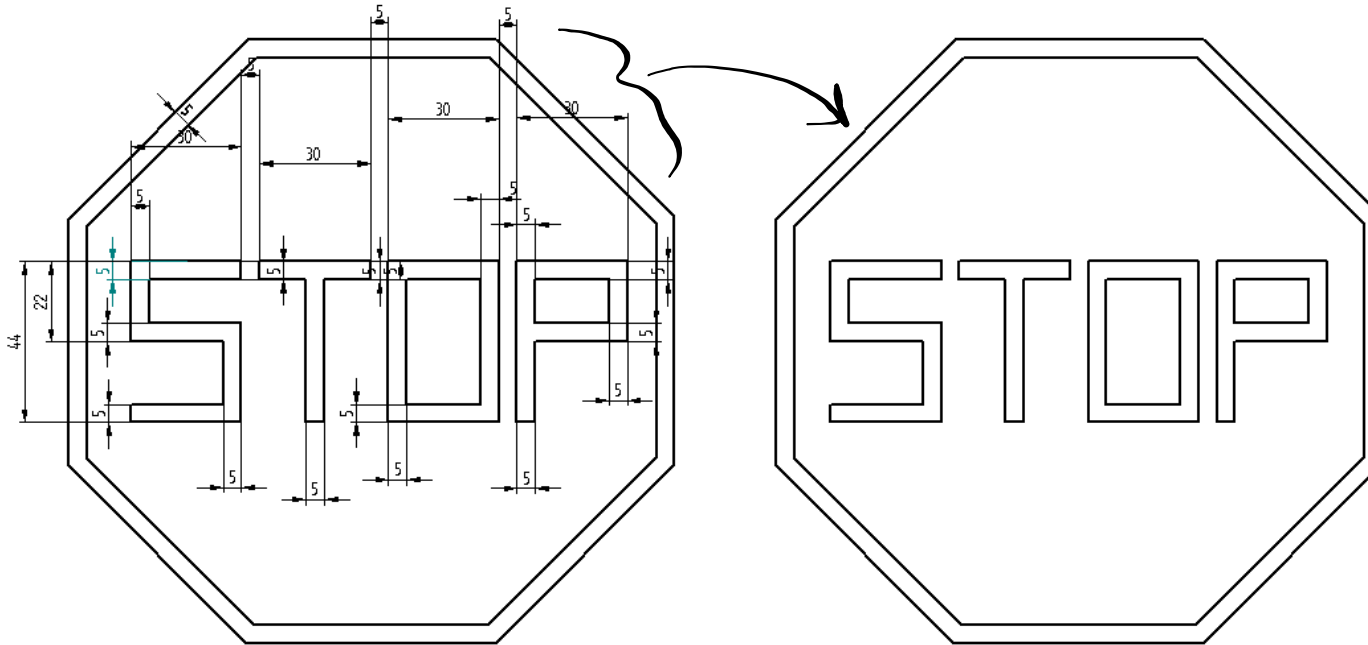


**Step ten:** Use the *offset command* to make a *chained* copy of the octagon. You will have to set the distance to 5 mm in the ribbon bar. Then select the octagon and click on the *check mark* next to the *chain option* in the fly down menu. Have the arrow pointed inward to have the copy inside the original octagon.



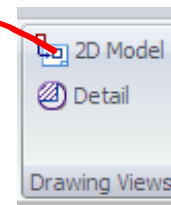
## Step eleven:

**Move** the letters into the octagons. Try to centre the letters. For this assignment, this can be done by eye. Once in place, you can remove the dimensions.

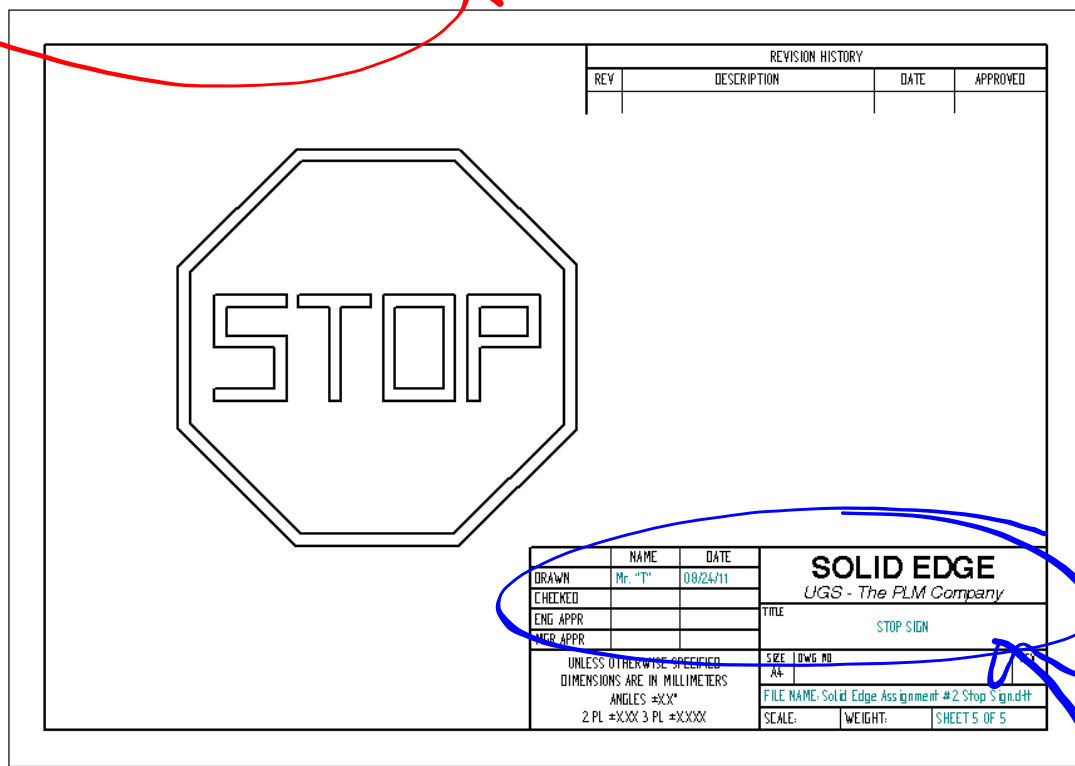


Note: dimensions for this assignment are only used to size the letters and are temporary. Once deleted they gone.

**Step twelve:** Use the 2D model sheet icon to place the group of objects on an "A4" presentation sheet. The view scale should be modified to 1.5mm equals 1 mm or 0.667 in the view ribbon bar.



Type in "1/1.5" in the scale value field and press enter. Solid Edge will calculate the answer for you.



Go to the pull down menu File" then to "File Properties" and select the "Summary" tab. Fill in author and title. Your name will appear after you save the file.

NAME	DATE	SOLID EDGE	
DRAWN Mr. "T"	08/24/11	UGS - The PLM Company	
CHECKED		TITLE STOP SIGN	
ENG APPR		UNLESS OTHERWISE SPECIFIED	
MR APPR		DIMENSIONS ARE IN MILLIMETERS	
		ANGLES =XX°	
		FILE NAME: Solid Edge Assignment #2 Stop Sign.dft	SCALE: WEIGHT: SHEET 5 OF 5

Last step!

Print to the laser printer.