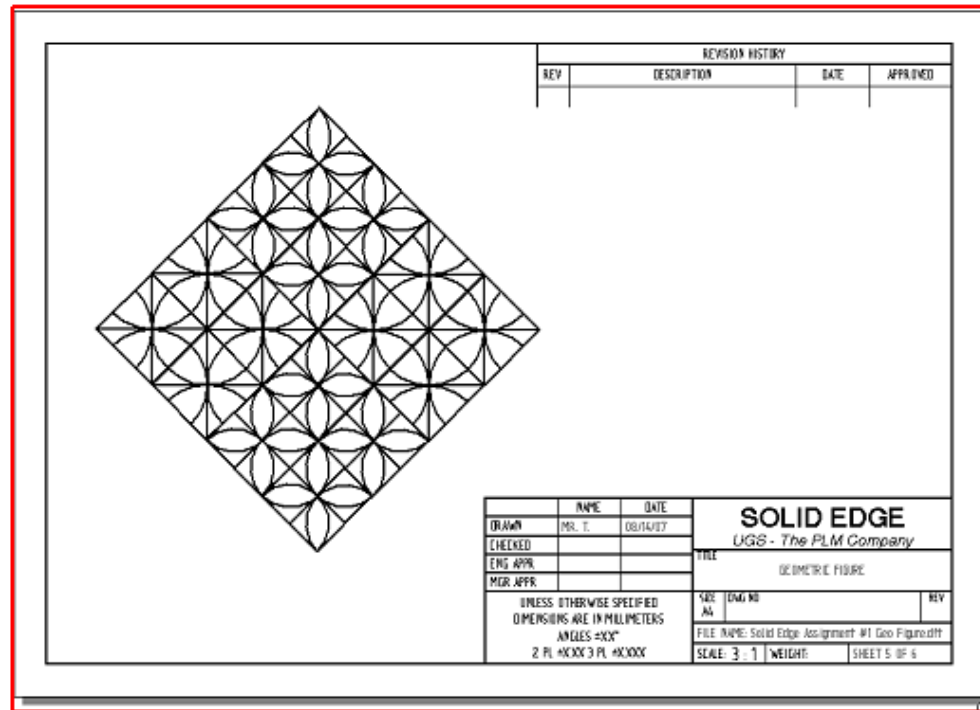


Assignment #1: Geometric Figure

Now that you have learned how to make and modify simple objects such as lines, arcs and circles it is now time use this knowledge. You are to draw and print out *to size* "The Geometric Figure" shown below.

Before you can start, the drawing file has to be *set up*. Follow steps one to four do this.

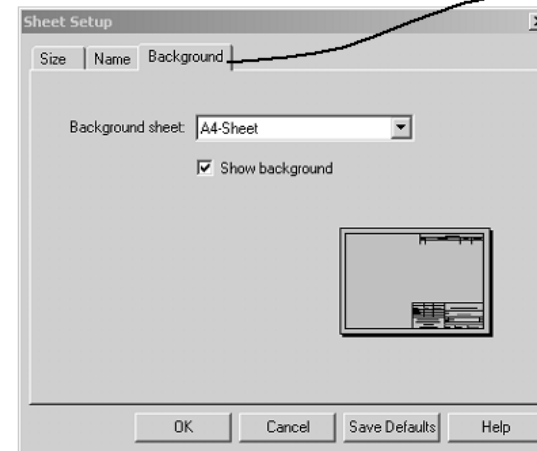


Step one: set sheet size to a metric A4 border and title block.

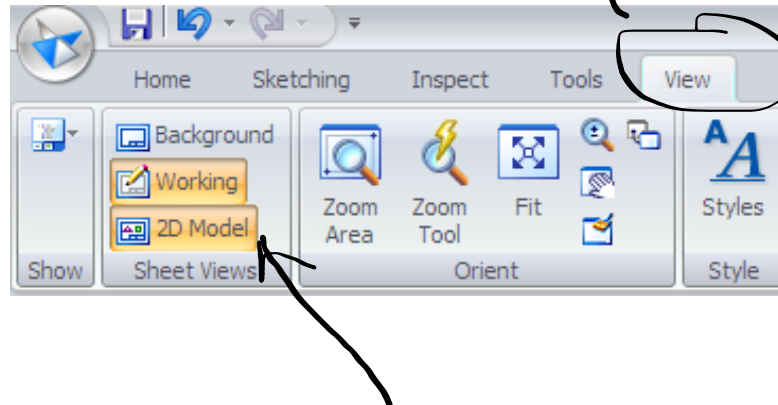


Right click on sheet tab and pick *sheet setup* from the menu

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.

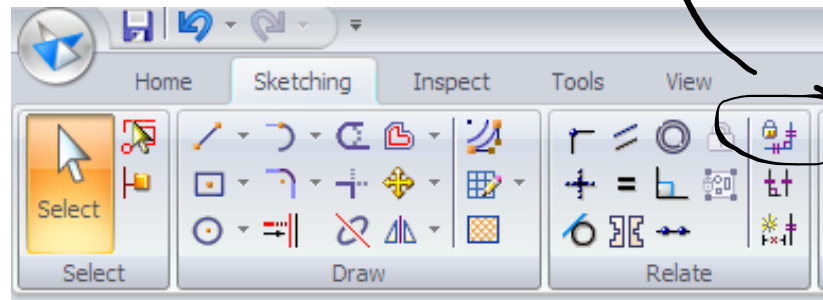


Step three Make the 2D model sheet tab appear by clicking on the *2D model sheet* option under the *view* menu.

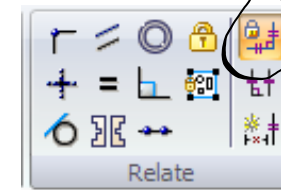


Then click on the 2D model *tab* at the bottom of the screen on the left hand side.

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 off** under the *sketching menu*.



Maintain relationships on



Your first Solid Edge 2D assignment

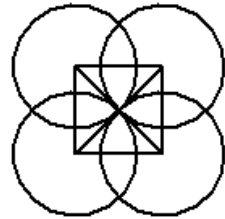
Step one:



Use the rectangle command to make a 8mm x 8mm box.



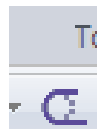
Use the Line command. Make sure to connect the end points of the box to the lines.



Use the circle command. Make sure to start at the corners and then drag the circle to the middle of the box where the line cross.



Use the trim command. Drag a "sketch line" around the parts you do not want.



Look for the trim command icon

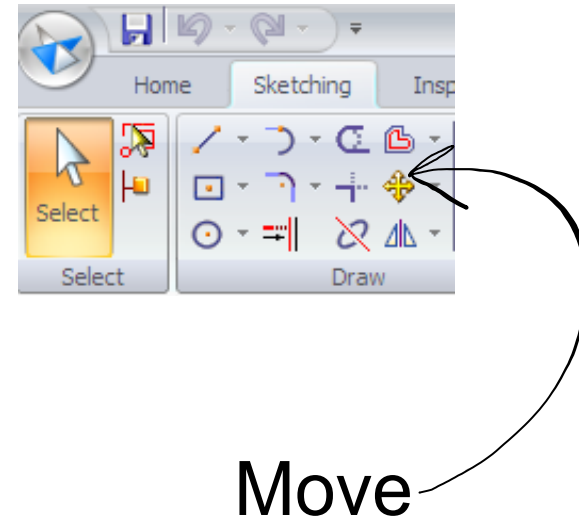
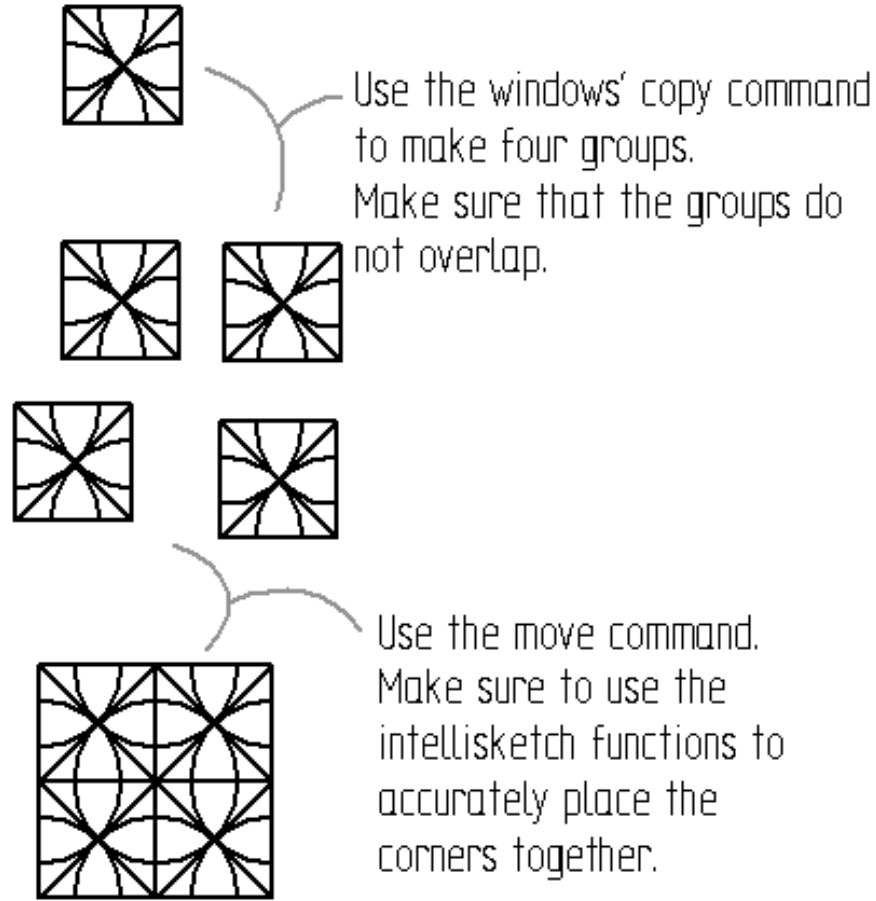
Rectangle

Trim

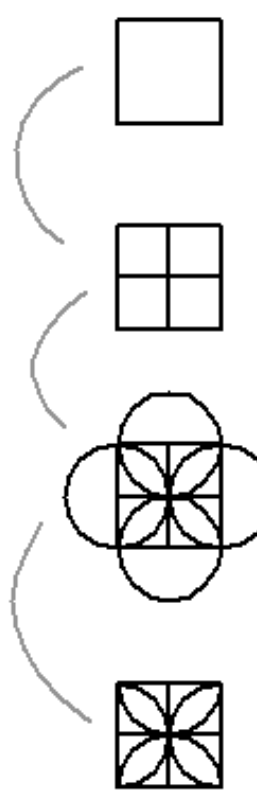


Circle

Step two:



Step three: Note: make this on the same file!



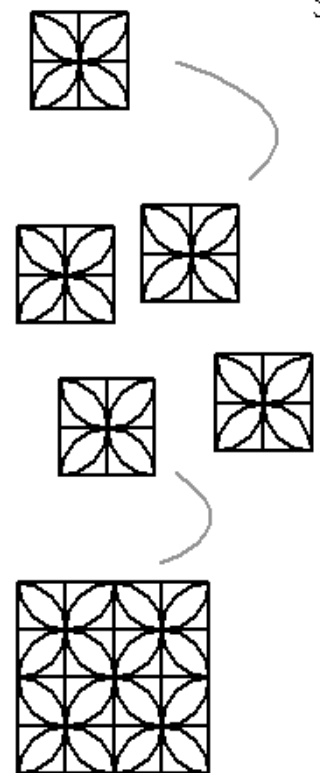
Use the rectangle command to make a 8mm x 8mm box.

Use the line command. Make sure to connect the mid points of the box's side to the end points of the lines.

Use the circle command. Make sure to start at the mid point of the box's side and then drag the circle to the middle of the box where the line cross.


Use the trim command. As before, drag a "sketch line" around the parts you do not want.

Step four:

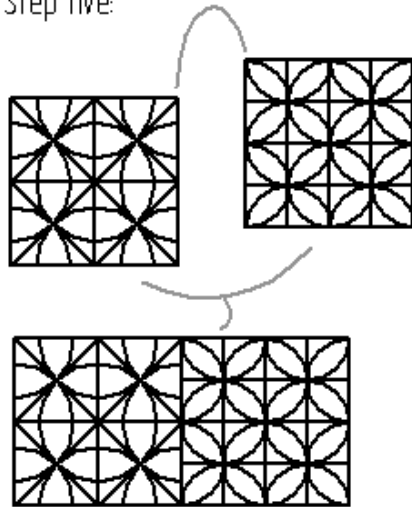


Same as step two.

Want more?
Learn how to do this step easier with the mirror, copy or rotate command!



Step five:

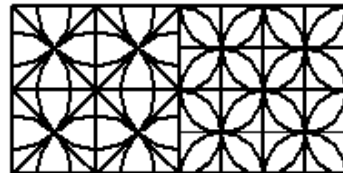


Use the move command to place the groupings together.

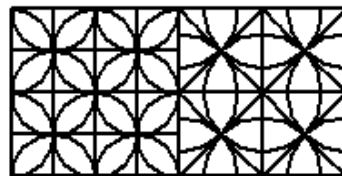
Make sure to have the corners match up.

Use the zoom commands to confirm.

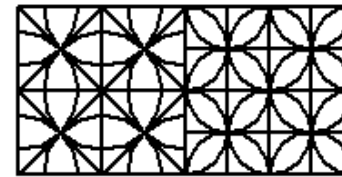
Step seven:



Use the rotate command. Rotate the bottom group 180 degrees. This can be done by the drag mode or by typing in the angle in the ribbon bar.

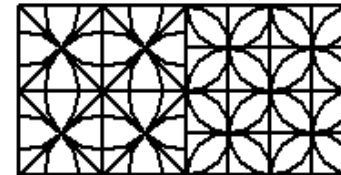


Step six:

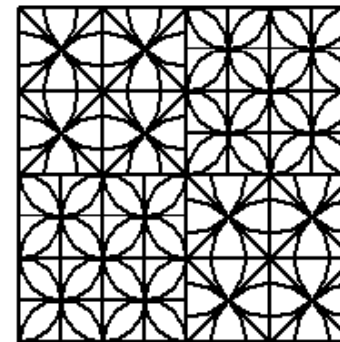


As before in step two and four, copy the group to make 2 of them.

Make sure to not overlap the copy with the original



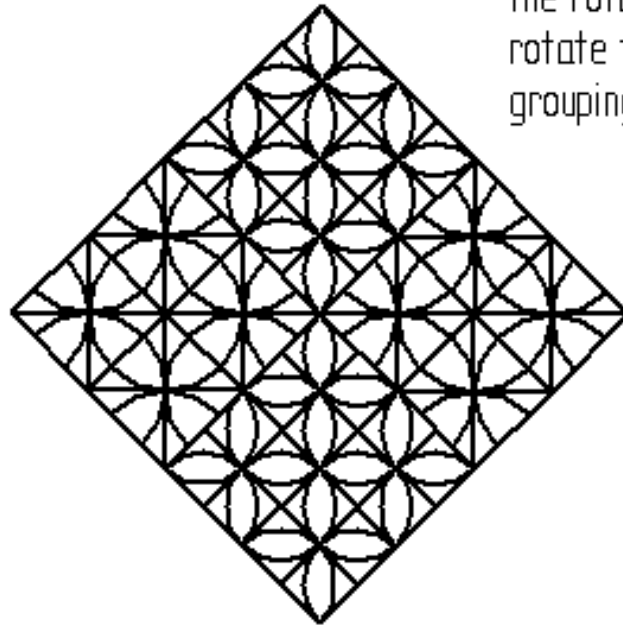
Step eight:



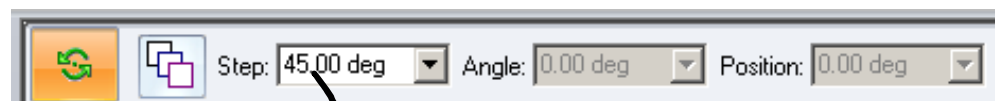
Use the move command. Make sure to use the intellisketch functions to accurately place the corners together.

Step nine:

As in step seven use the rotate command, rotate the whole grouping 45 degrees.

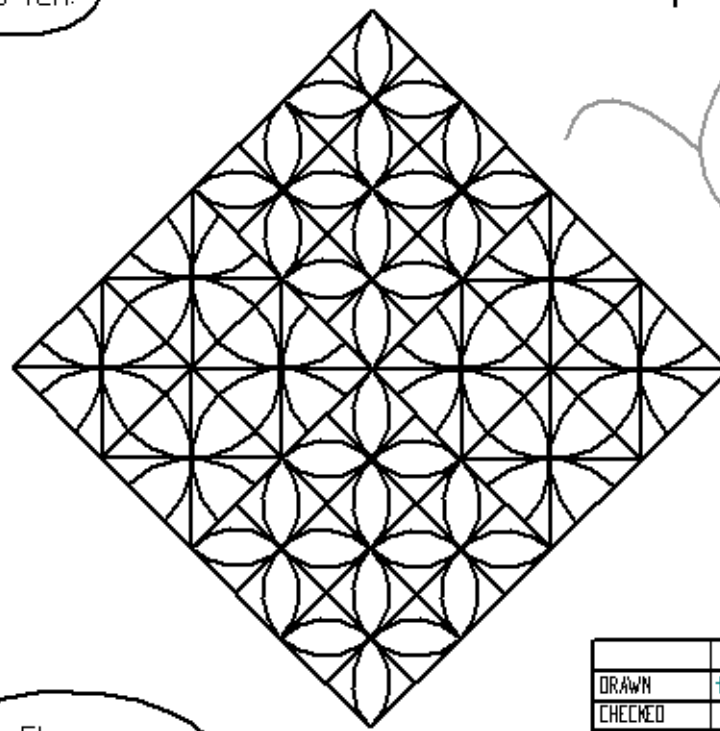


Rotate



Type in 45 degrees

Step ten:



Step Eleven:
Print!

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED

Use the 2D model sheet icon to place the group of objects on an "A4" presentation sheet.

The view scale should be modified to 3mm equals 1mm or 3:1 in the view ribbon bar.

Go to the pull down menu "file" then to "file properties" and select the "summary tab". Fill in author and title

	NAME	DATE	SOLID EDGE	
DRAWN	trindav	08/26/11	<i>UGS - The PLM Company</i>	
CHECKED			TITLE	
ENG APPR			GEOMETRIC FIGURE	
MGR APPR			SEE	DWG NO
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±XX° 2 PL ±XXX 3 PL ±XXXX			A4	REV
			FILE NAME: Solid Edge ST3 Assignment #1 Geo Figure.dft	
		SCALE: 3:1	WEIGHT:	SHEET 4 OF 6

