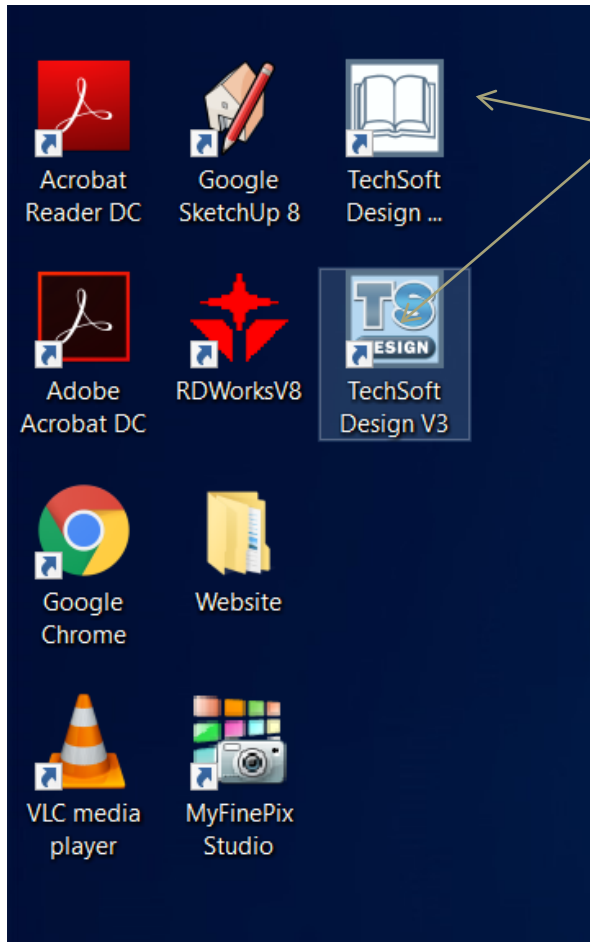


Making a simple clock model using TS/2D Design

Go through this tutorial - You will need to create your own shapes and have your 2D design files for your 'contoured stained glass windows' available (you can get this off your google drive).

Step 1

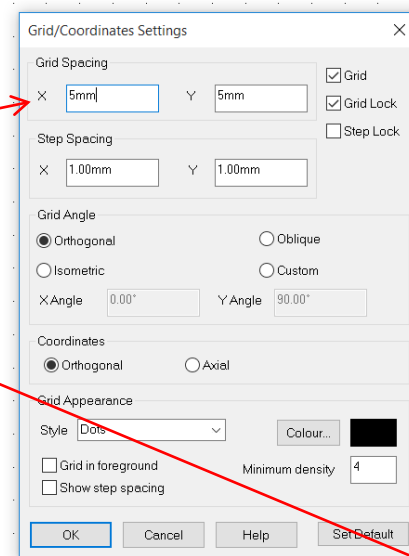
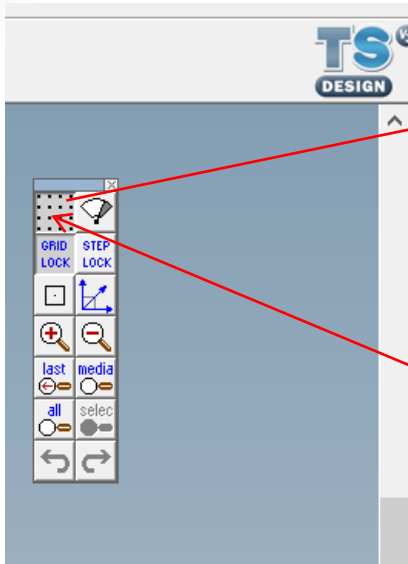


If you have successfully managed to download TS Design it should appear on your desktop of your computer/laptop. You will need to double click to open. You will notice there is a TechSoft Design Tutorial as well, you may want to click on this first to go through.

TS Design is basically 2D, it is just the updated version. The new program allows you to undo mistakes unlimited times (if you remember this was a problem with 2D you could only undo once).

Try this by drawing a few shapes then delete them all and the either Edit - Undo or Keyboard shortcut - Ctrl - Z.

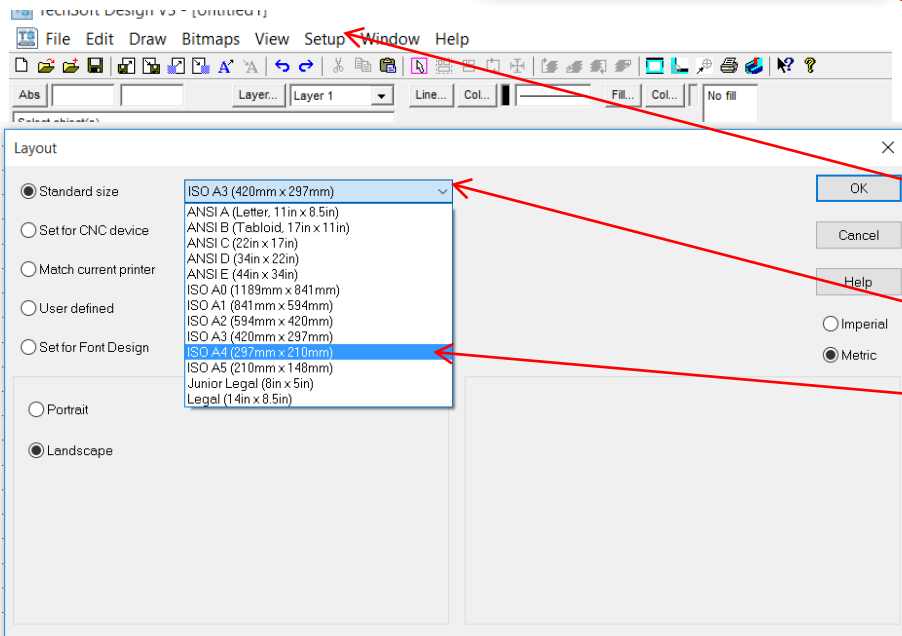
Step 2 - Set up your Artboard.



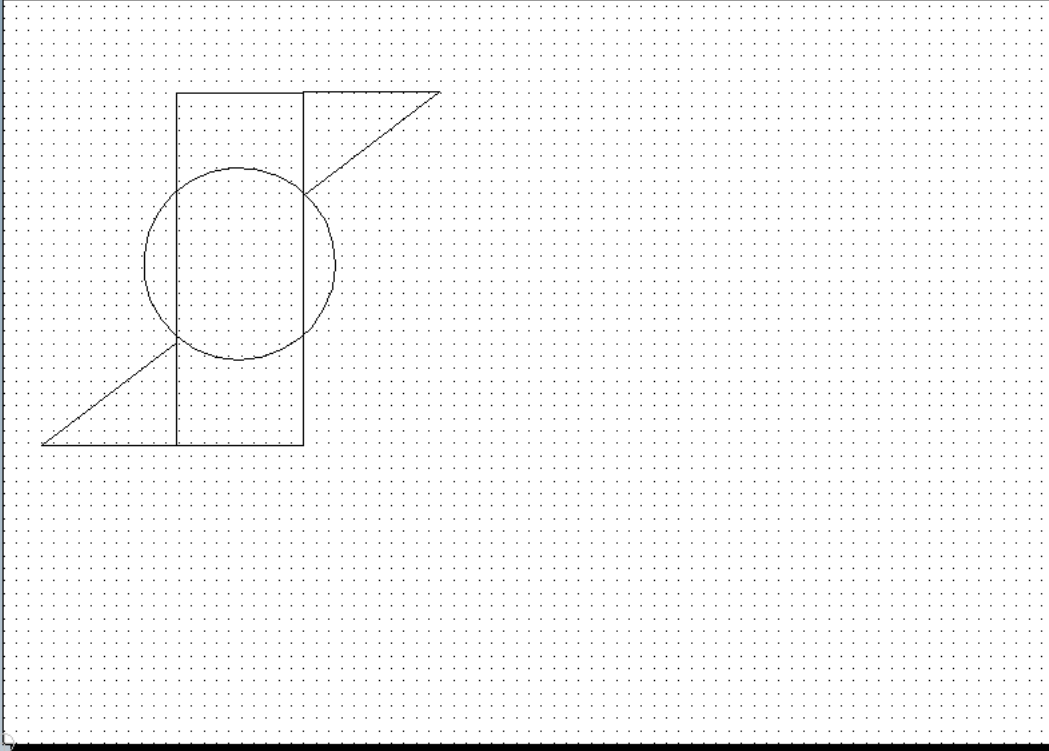
If you do not have your folders, don't worry you can still do this! You will make up your own shapes then draw these onto an A6 piece of paper (if you do not have any paper we can do this as catch up work during intervention sessions when we return to school).

Follow these steps:

1. Switch 'Grid Lock on' (top right tool box)
2. Double click on 'grid' (icon with dots), change grid spacing 'x' and 'y' to 5mm.
3. Go to Top Tab Bar (top of program) and click on 'Setup' - 'Drawing' - 'Layout'. Change 'Standard Size' to ISO A4. Click OK.
4. Now go to File - Save - Save your model as 'Art Deco Model.V1'. Remember to save down regularly



Step 3 - Draw out your shapes



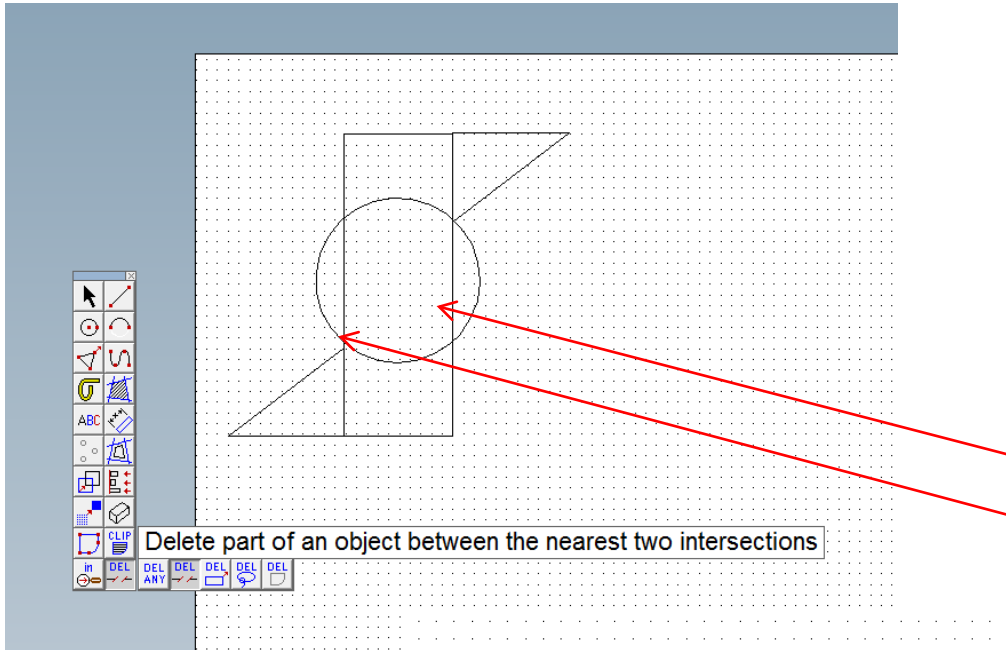
You can simplify your model even more by creating one overall shape using a variety of geometric shapes then simply adding a stained glass window effect to it.

Follow these steps:

1. Draw out geometric shapes. I used the most simple ones.
2. I placed them on top of each other.

REMEMBER - Do not copy mine exactly, you need to create your own shapes! You may wish to keep the circle though for your clock face, but this could even be changed to a different shape if you wish.

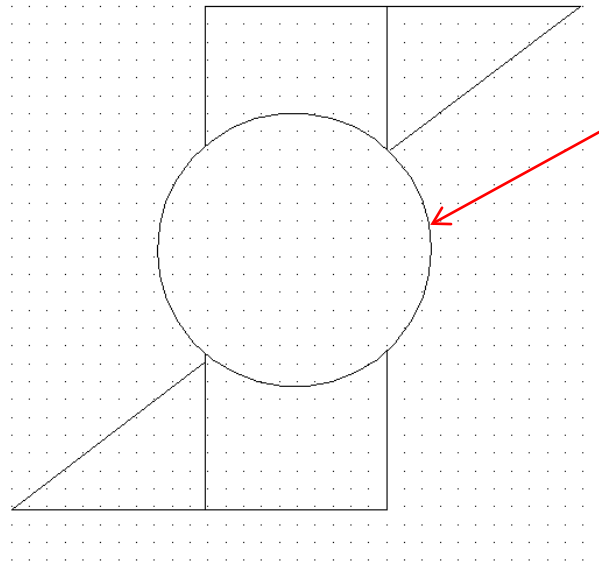
Step 4 - Draw out your shapes



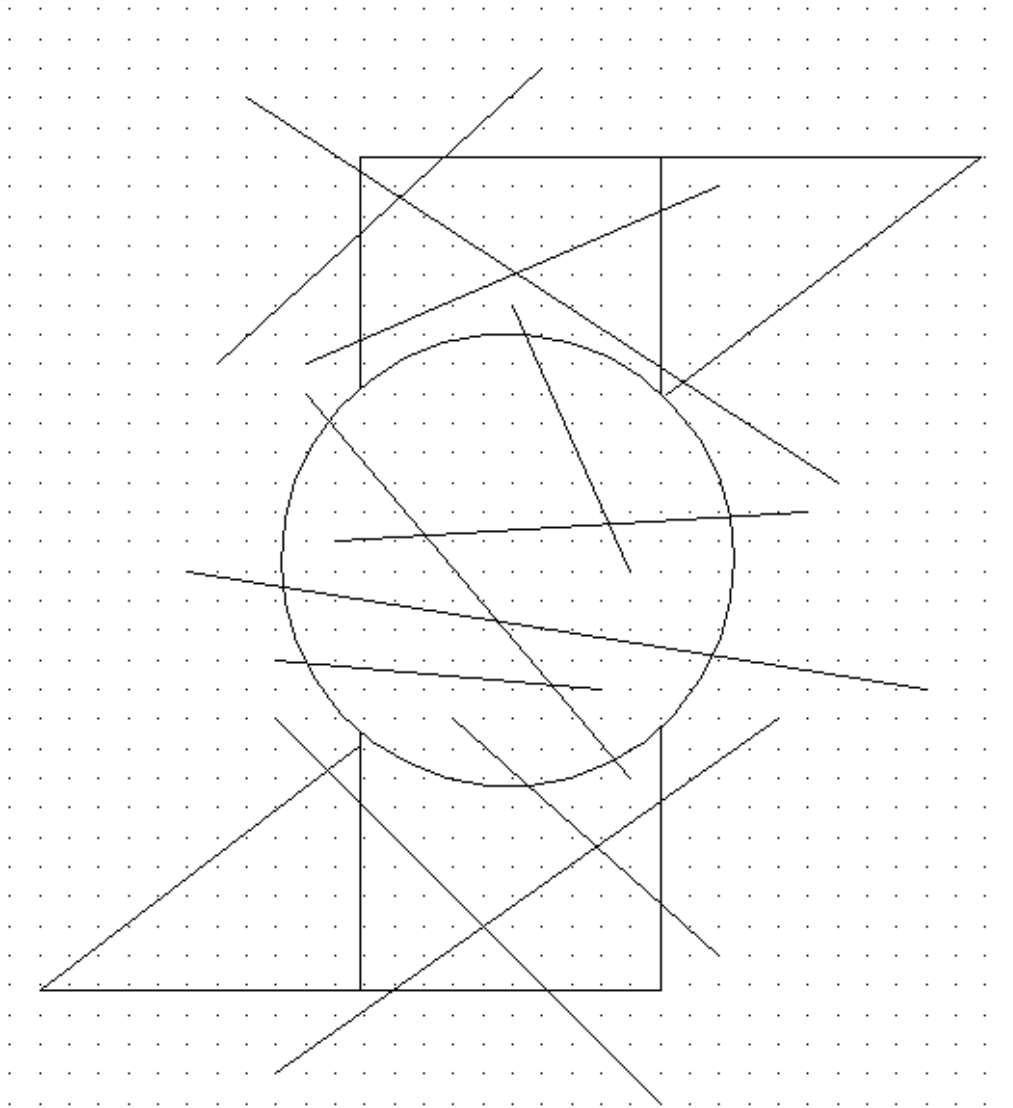
You can simplify your model even more by creating one overall shape using a variety of geometric shapes then simply adding a stained glass window effect to it.

Follow these steps:

1. Choose the delete cross over icon. And delete the two lines that go through the circle.
2. This is how it should look.



Step 5- Draw straight lines on your circle and other shapes



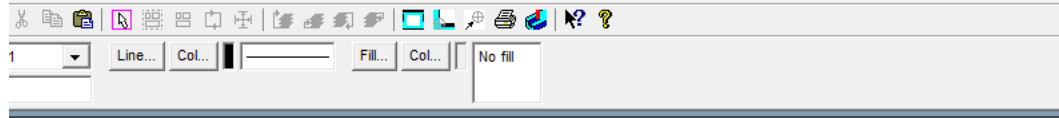
Follow these steps:

1. Choose the line tool and draw lines on your circle and rectangles. They will make different sized triangles.
2. Make sure they cross over each other and do not draw to many lines the triangles need to be big and simple or they will not contour.

Step 6- Delete the cross over lines

clock.v2]

up Window Help

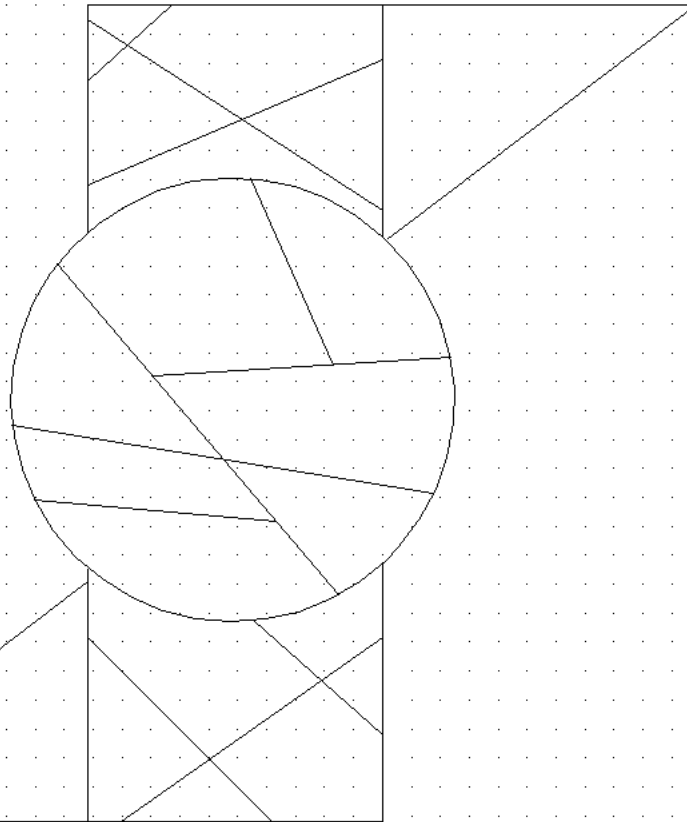


Follow these steps:

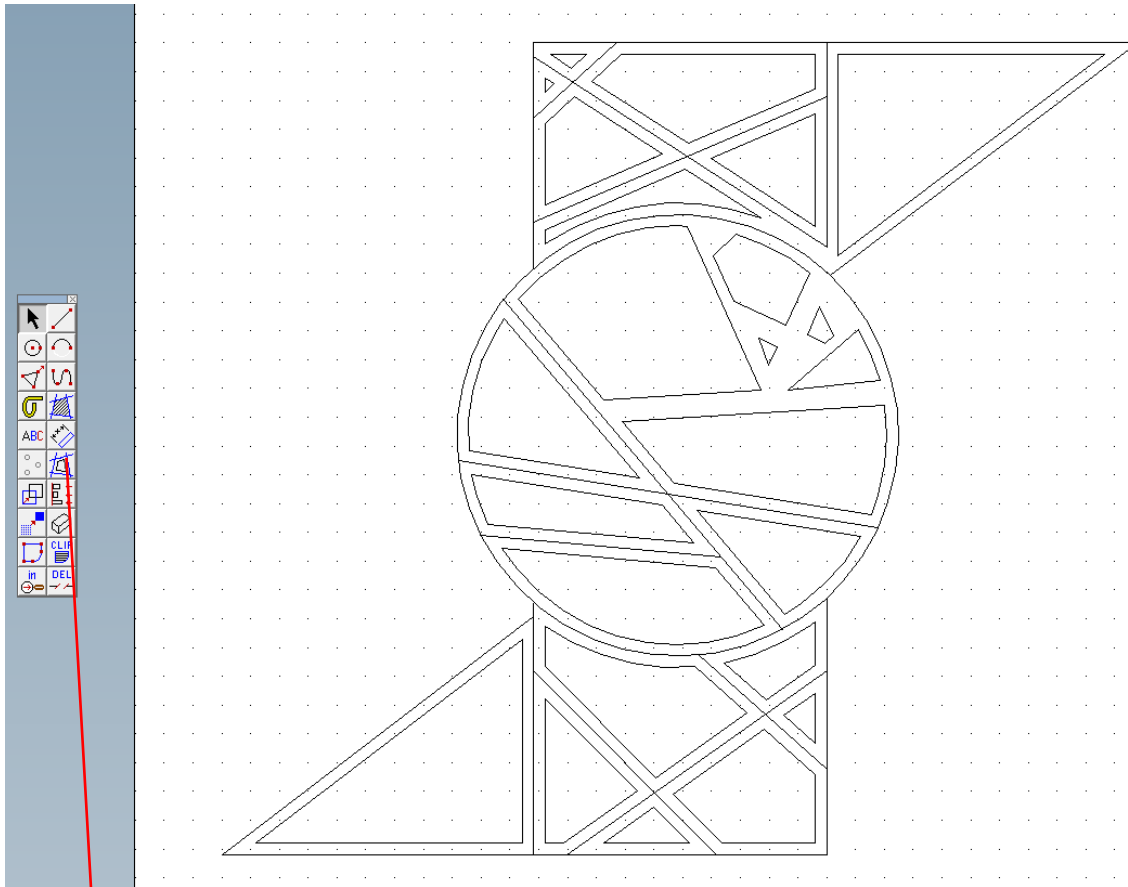
1. Choose the delete cross over tool and delete the crossovers to make your clock nice and neat.
2. I left my triangles blank.



Delete crossovers



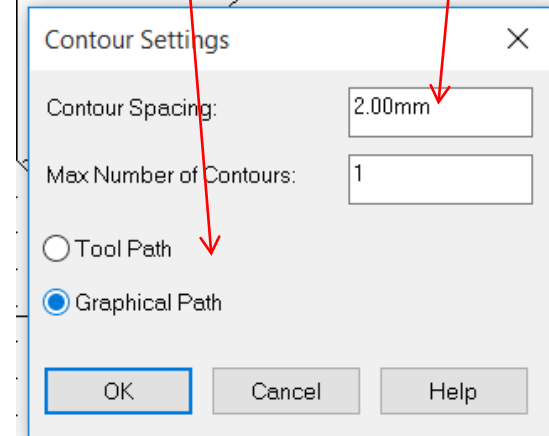
Step 7- Contour inside the lines



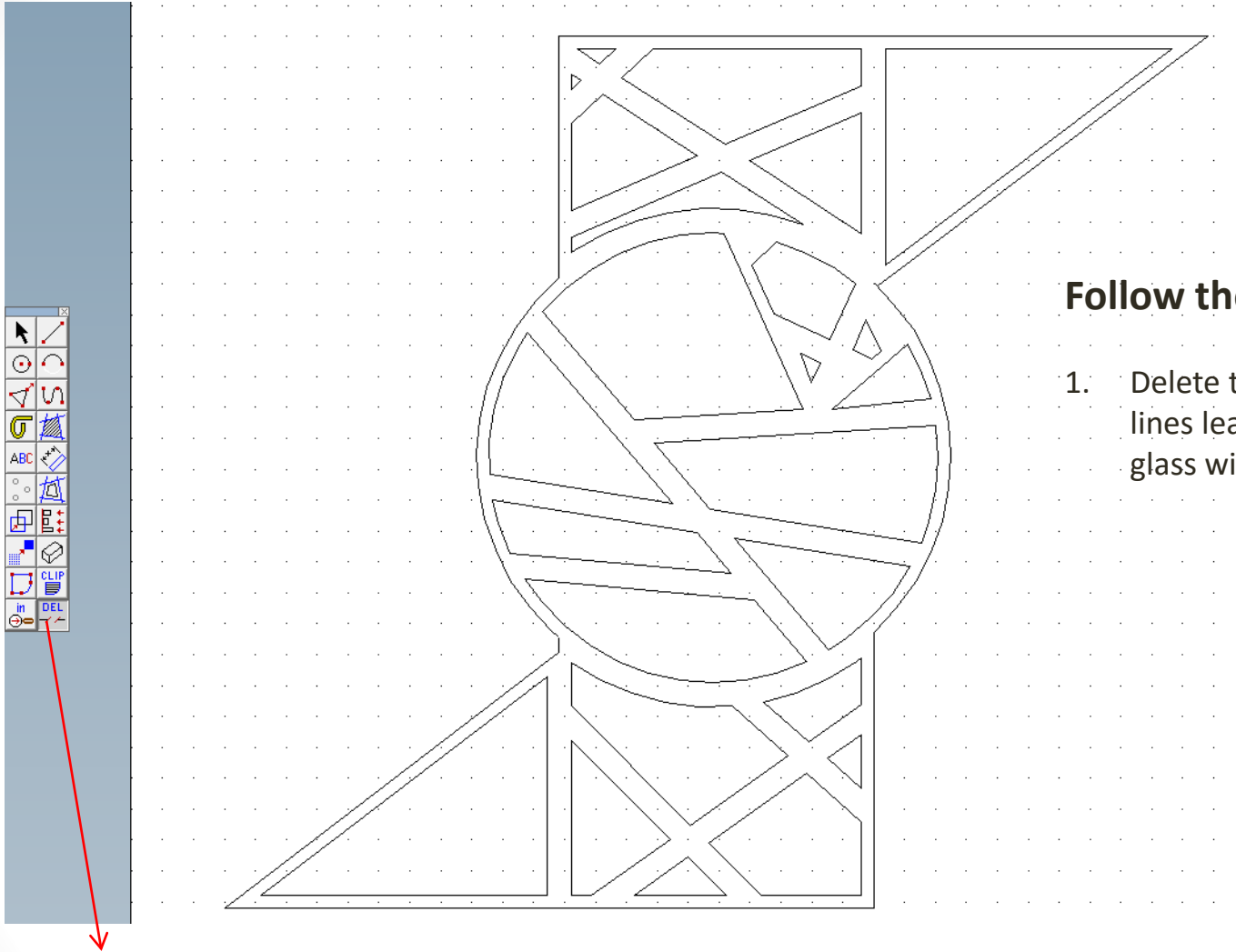
Contour icon
Looks like a wonky house!

Follow these steps:

1. Click on the contour icon.
2. You need to change contour spacing to 2mm.
3. You need to choose the Graphic Path



Step 8- Contour inside the lines



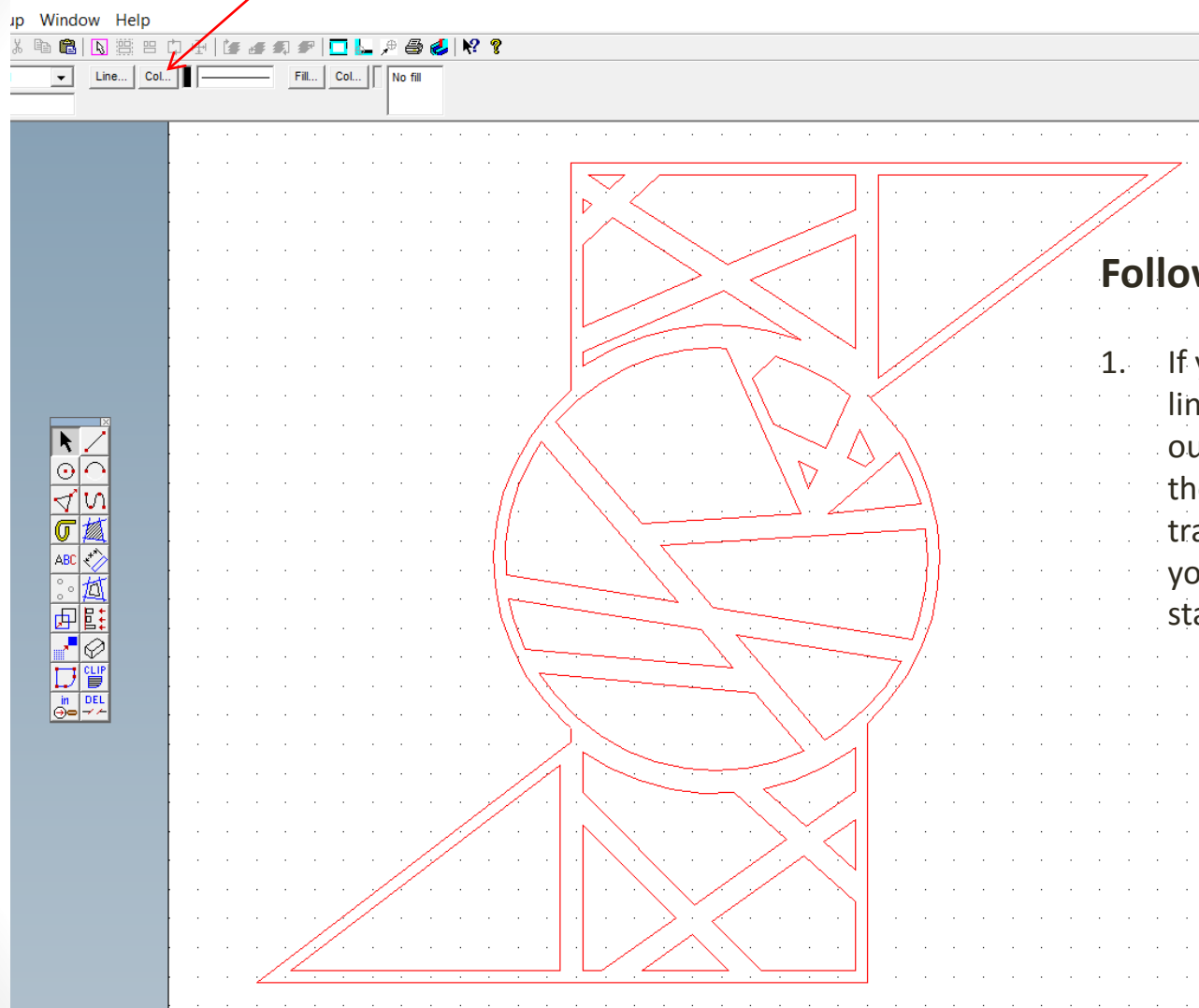
Follow these steps:

1. Delete the construction lines leaving a stained glass window effect.

Choose the delete crossover for this process!

Step 10 - Colour all lines red for laser cutting

To change colour choose this icon then choose the red in the custom colours.

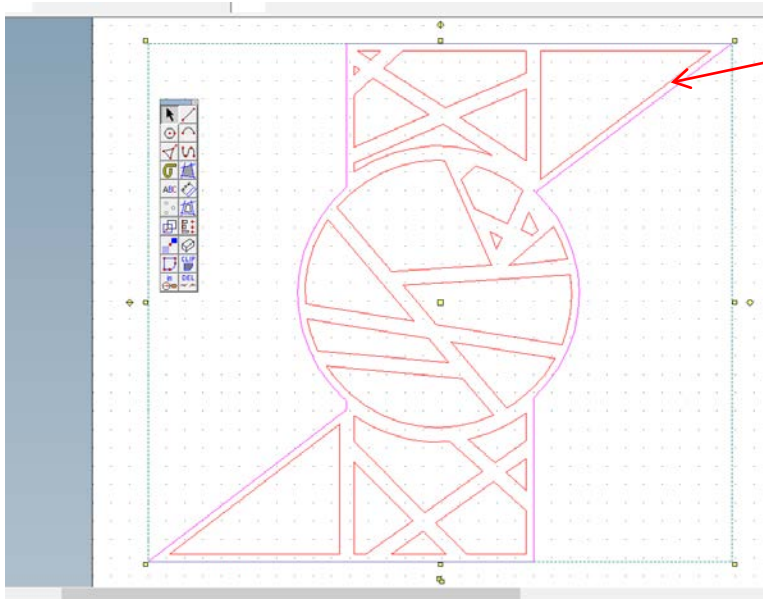


Follow these steps:

1. If you colour the inner lines red, these will cut out as well, you can cut these then out of a transparent material and you will have a good stained glass effect.

Step 10 - Make a back plate

You know if you have selected all the outside lines as they turn pink.



Follow these steps:

1. Choose the black arrow icon.
2. Hold your finger down on the shift key on your keyboard.
3. Select all of the outside lines.
4. Copy/paste to make a back plate.
5. Screen print this and copy onto your PowerPoint slide.
6. Upload TS/2D model and PowerPoint doc to your google drive.

