

So you wanna make a funky shit origami CD case huh?

Damn right you do.

So the CD case is going to be hexagonal, and it's gonna look a bit like this:

Anyways, in order to get to that stage there's a lot of complexity involved. If you have a laser cutter/big A3 printer handy, then I've got an Adobe Illustrator file you can download and print off. If not, read on.

So, what you'll need: compass, pencil, ruler, scissors/craft knife.

Step One

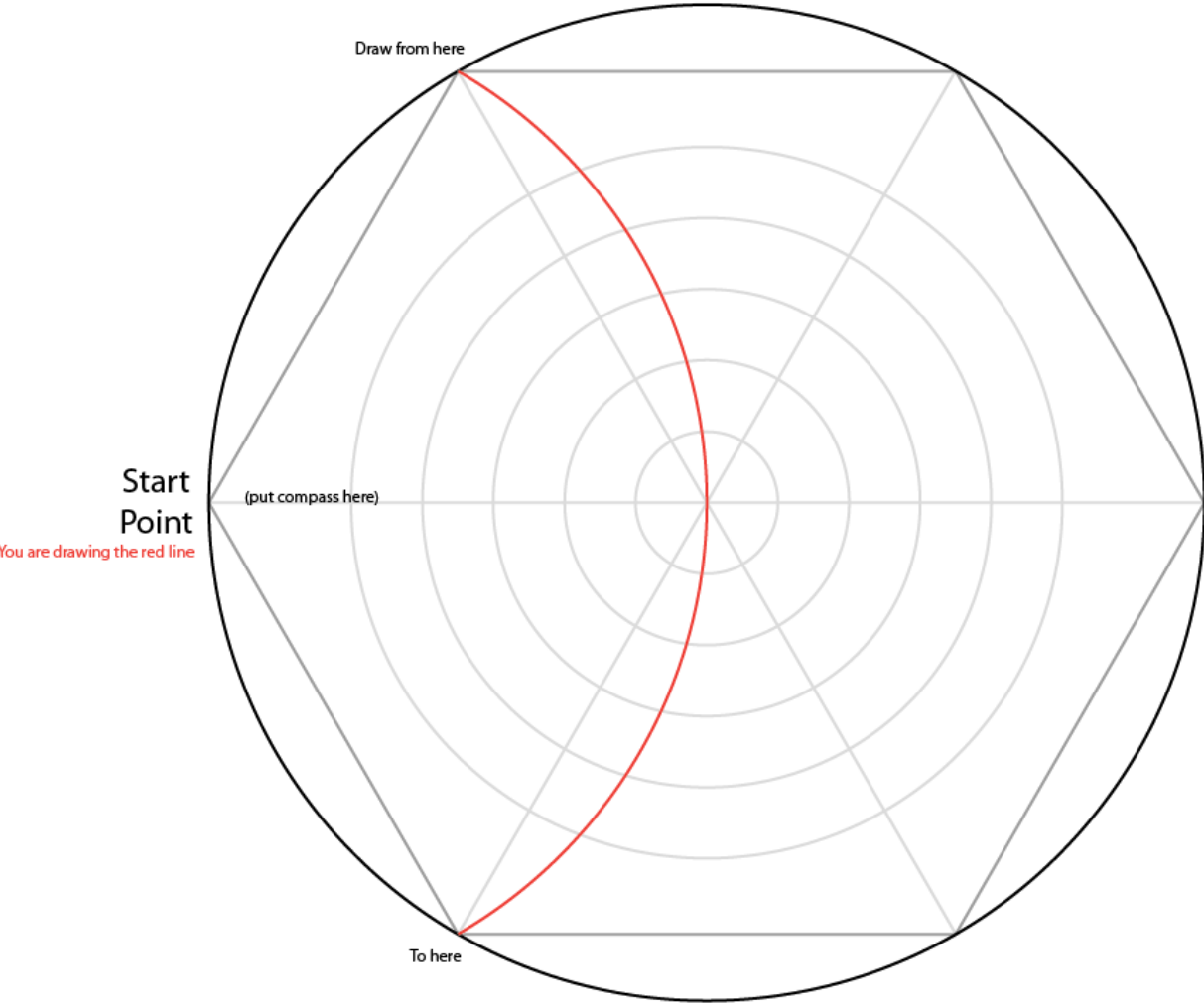
You're going to draw a circle with a diameter of 126mm (a CD is 120mm, but you want a bit of room just in case you get it a bit wrong/and it'll fold over the CD better). So set your compass to 63mm

Draw the circle.

Pick any point on the circle, and draw a mark. Then with your compass, set the point on this mark and draw a curve from wherever the pencil meets the circle to where it meets again.

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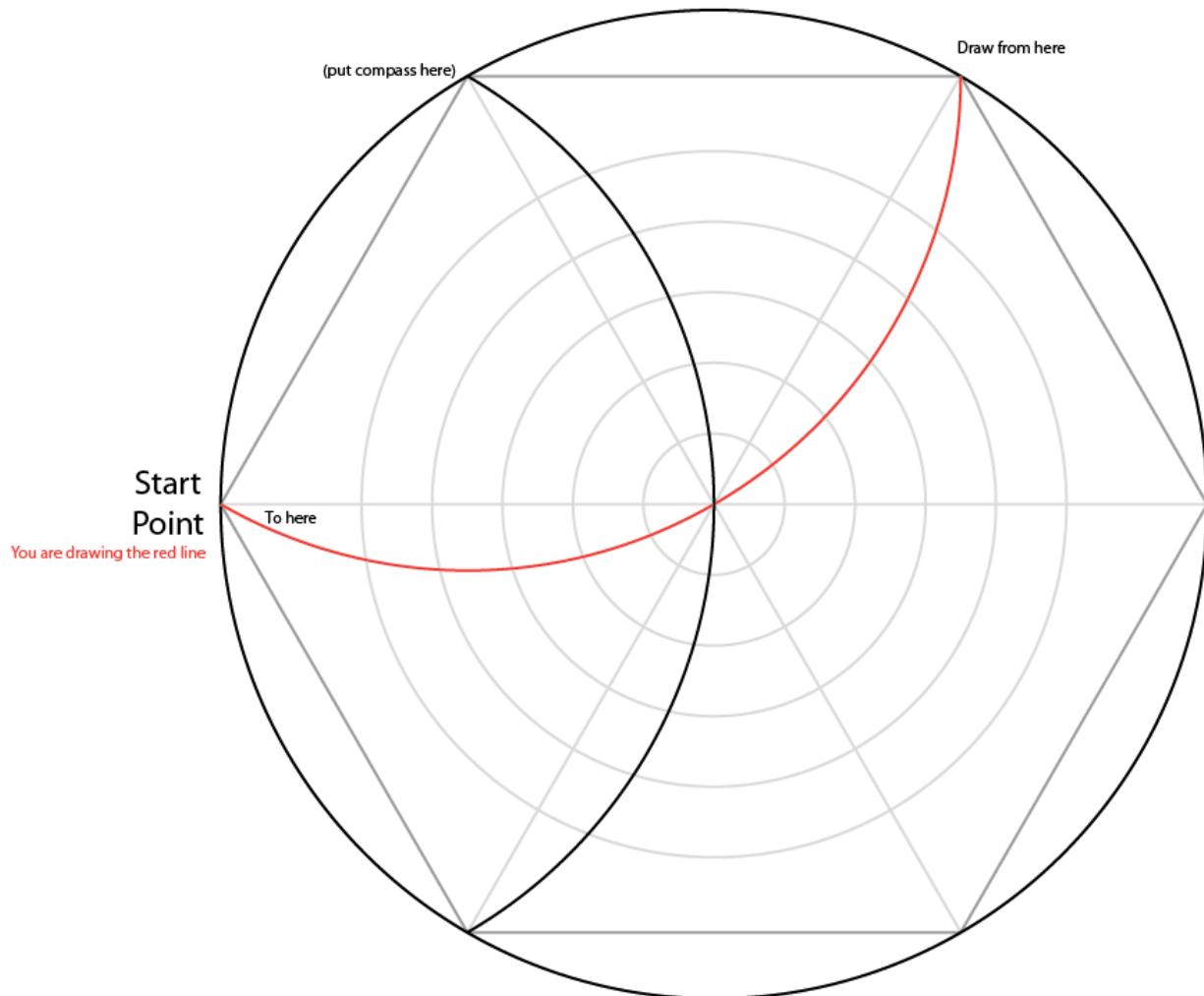
It's best if you do this in a different colour, for later.



The hexagon is imaginary for now. The spider-web is the Polar Grid tool in Adobe Illustrator, with 6 radial sectors (to illustrate my point)

Step Two

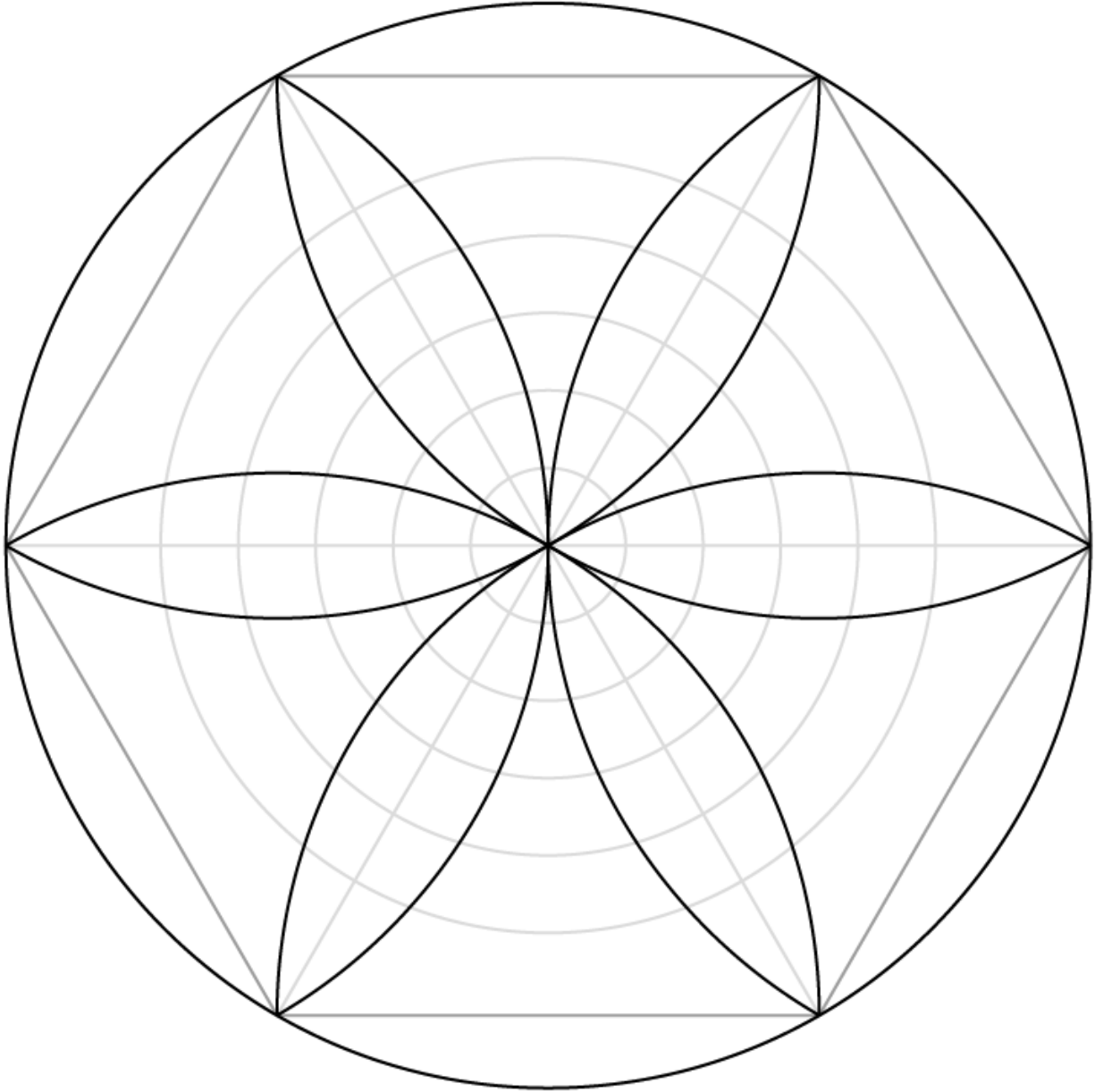
Then move your compass to one end of the line you just drew.



The hexagon is imaginary for now. The spider-web is the Polar Grid tool in Adobe Illustrator, with 6 radial sectors (to illustrate my point)

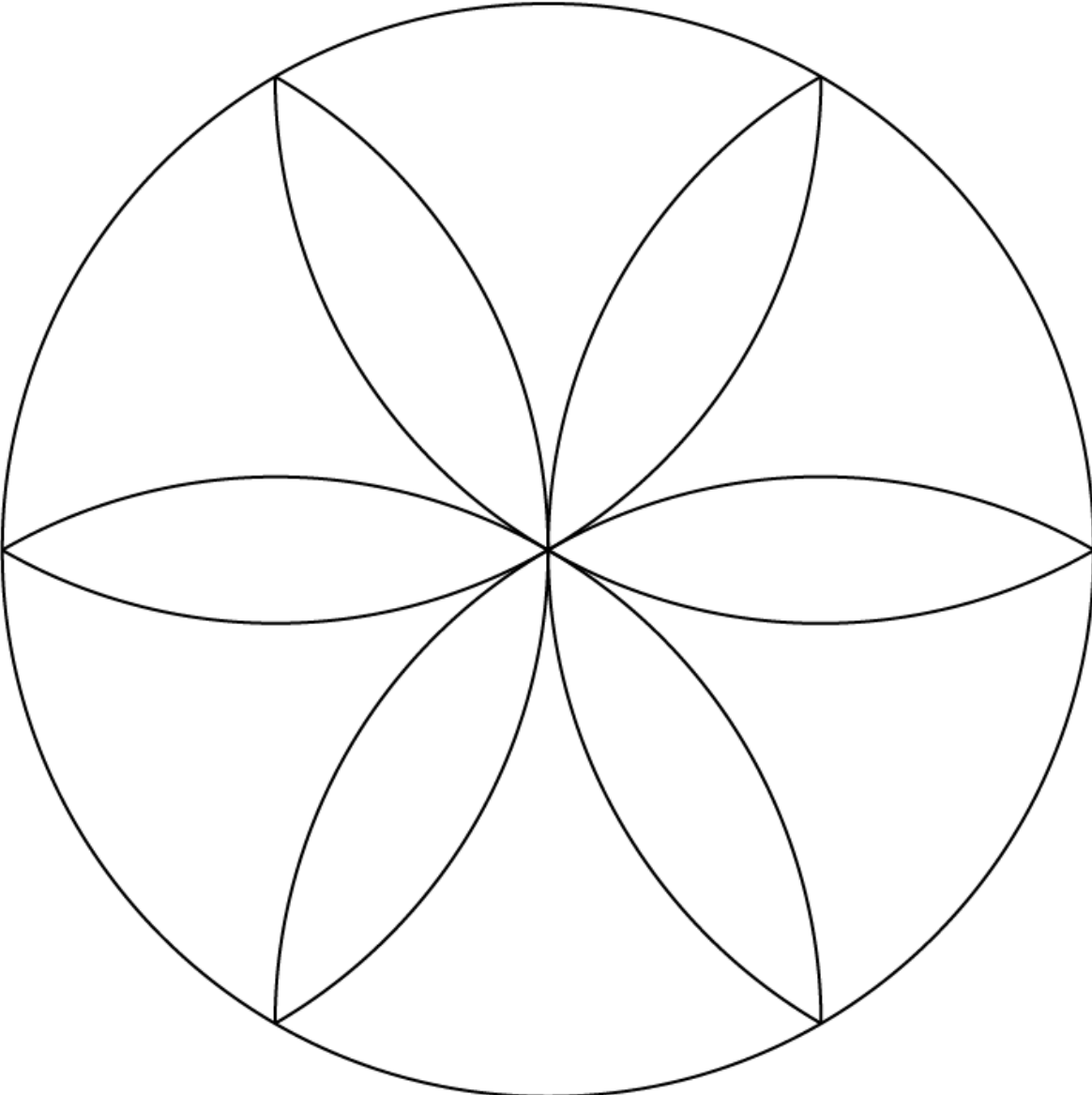
Step Three

Repeat, and keep going until you get something (well, not something, it has to be **exactly**) like this:



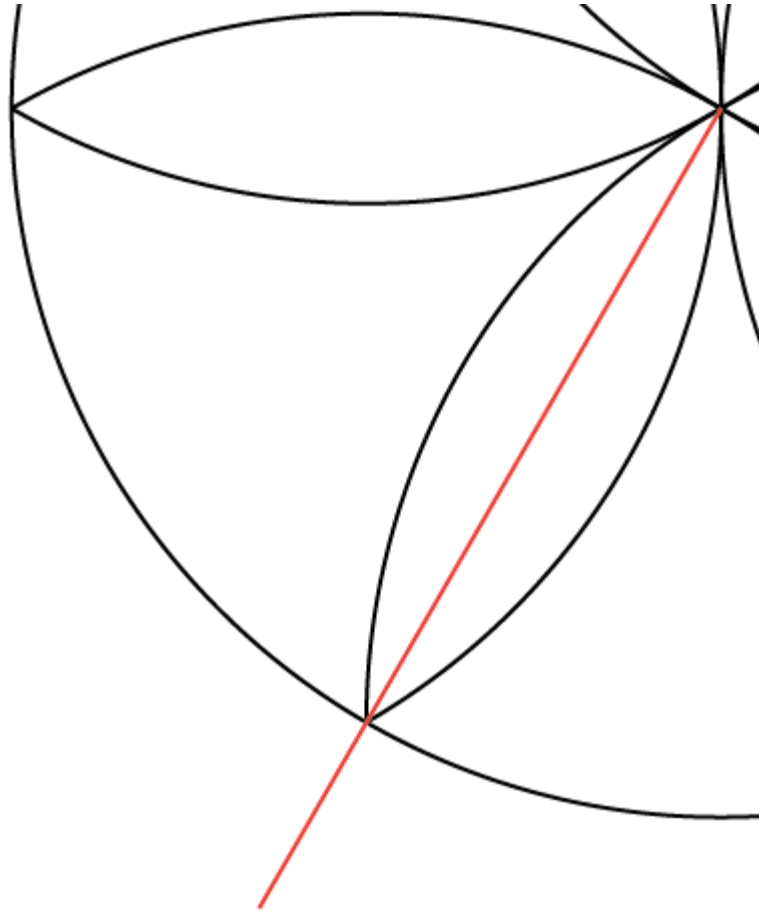
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So, just to illustrate, this is what you should have on your paper now (without my markings):



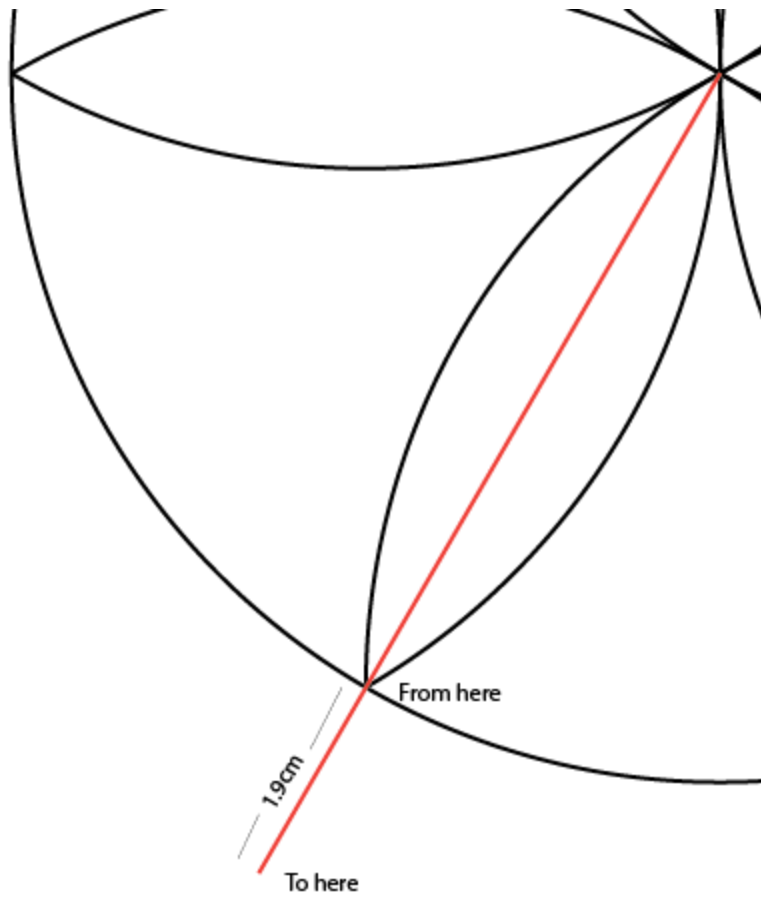
Step Four

Now you're going to draw a line through each of the eye-shaped sections you just created, linking up the center of the circle and where the points cross on the exterior circle:



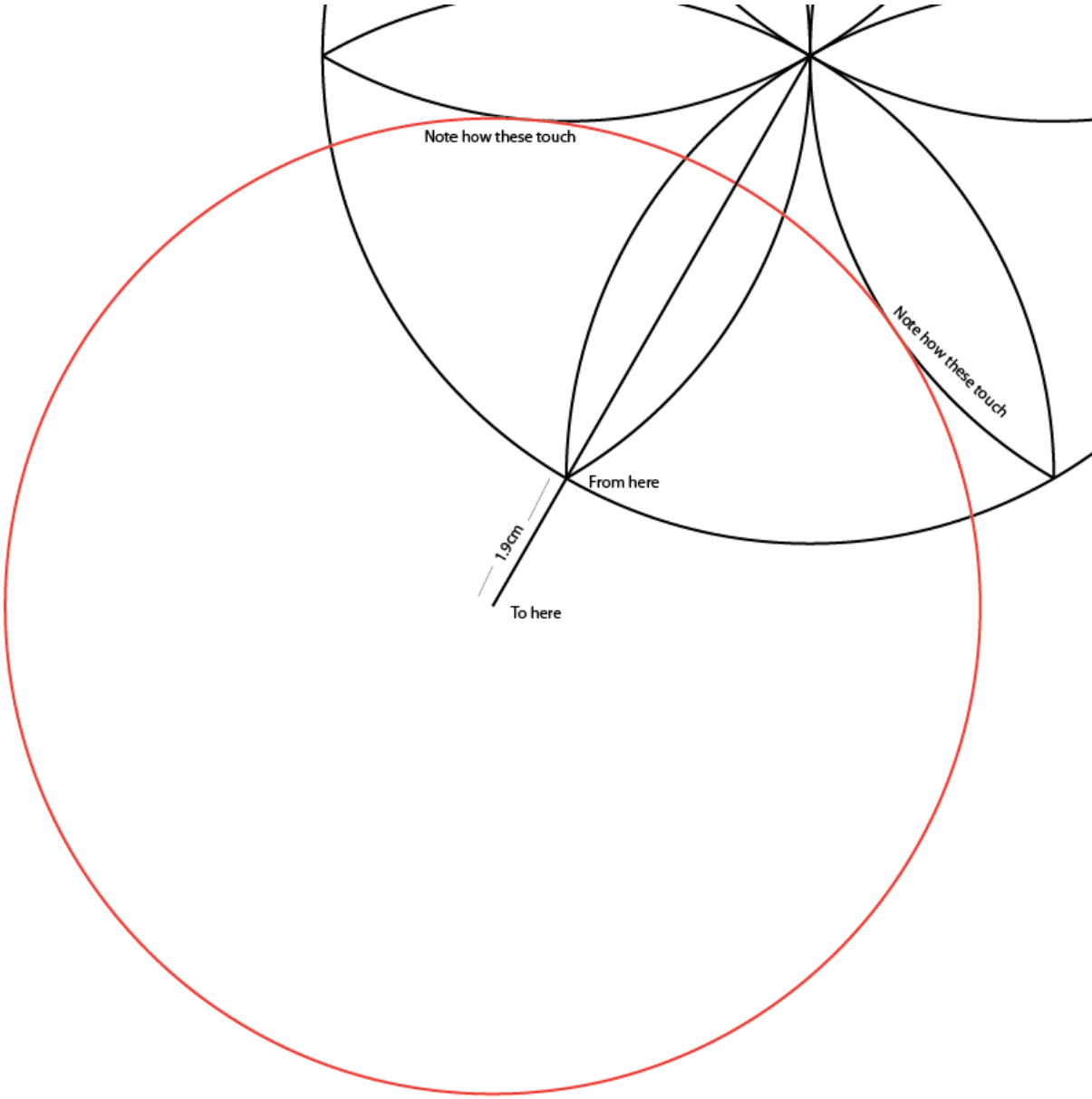
Step Five

Then measure 1.9cm from the exterior circle along the line, and mark it. Repeat for every section.



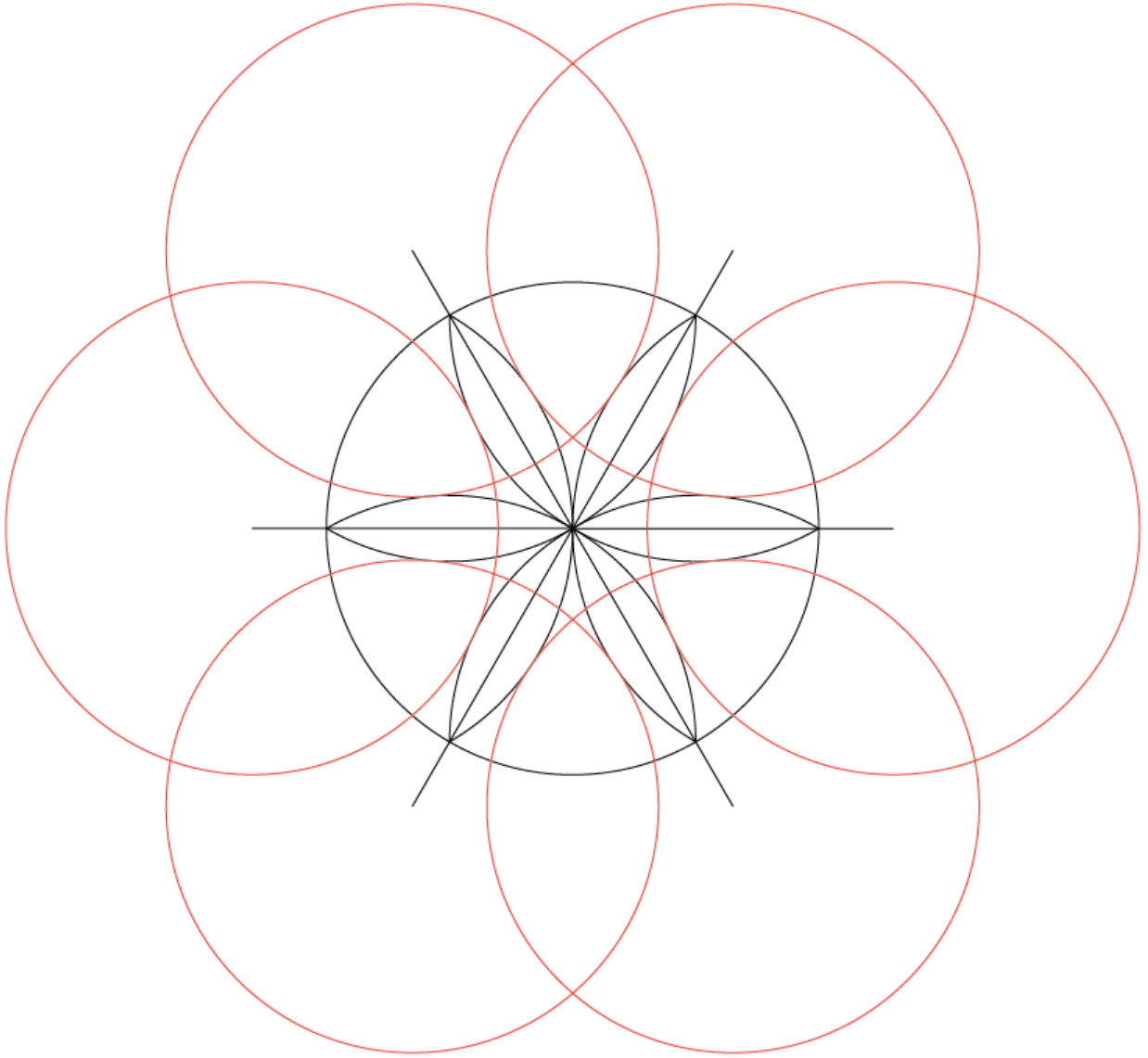
Step Six

Then from here, you're going to place your compass (@63mm) on the point you marked and draw a full circle. Notice how the edges of the circle touch the sections.



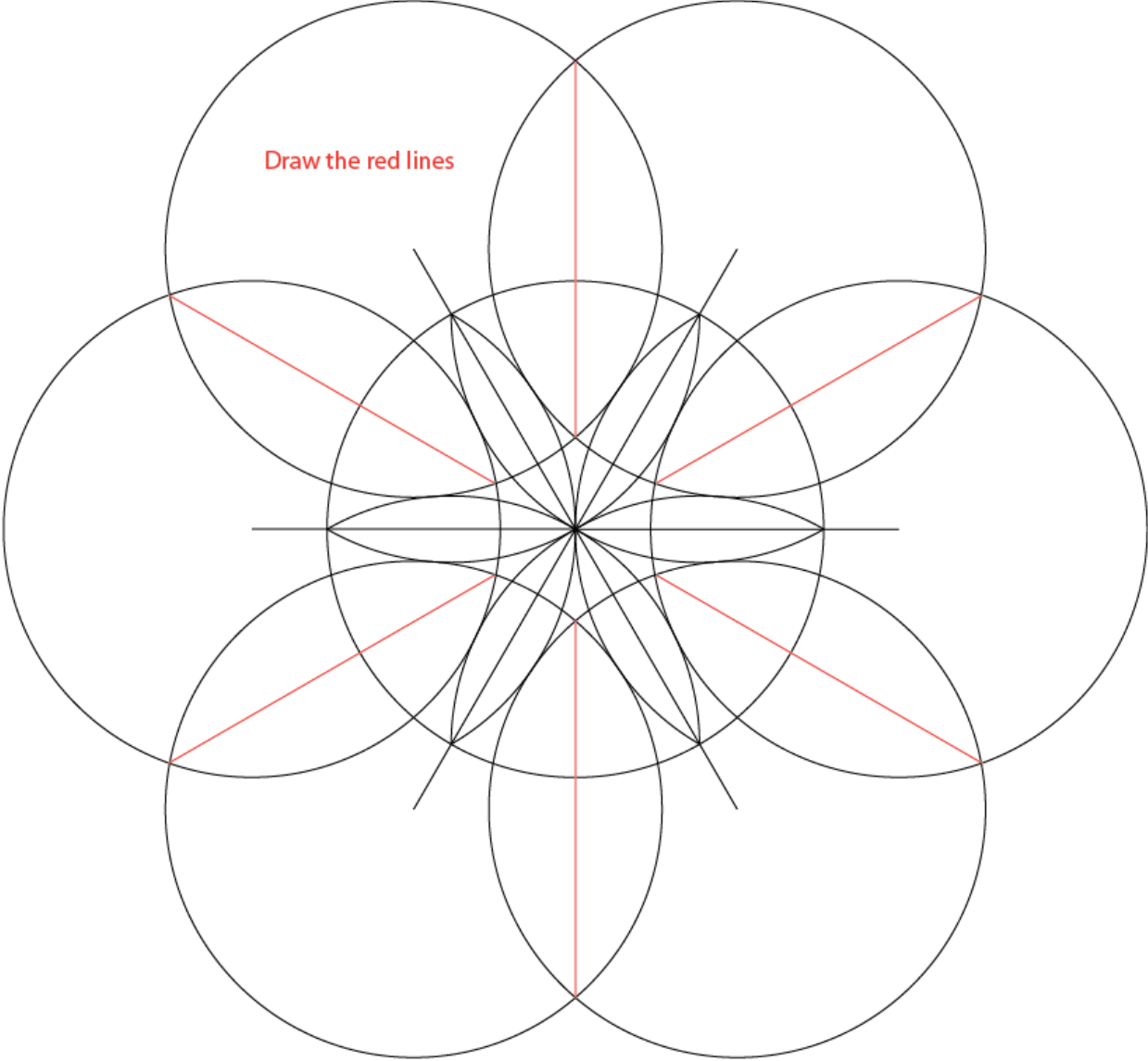
Step Seven

Repeat until you have this:



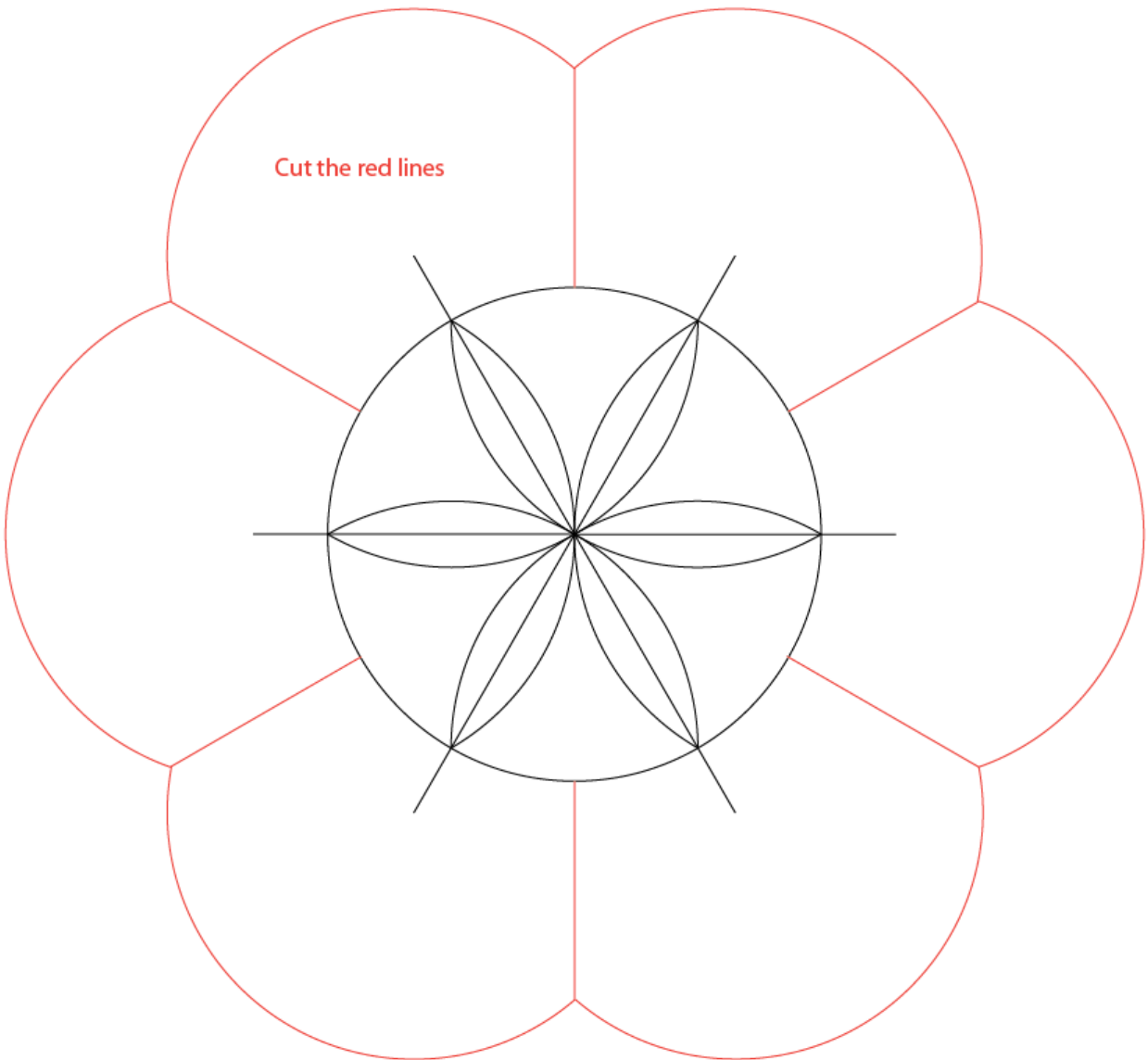
Step Eight

Grab a ruler, and draw these lines in. Very similar to what you did in step five.



Step Nine

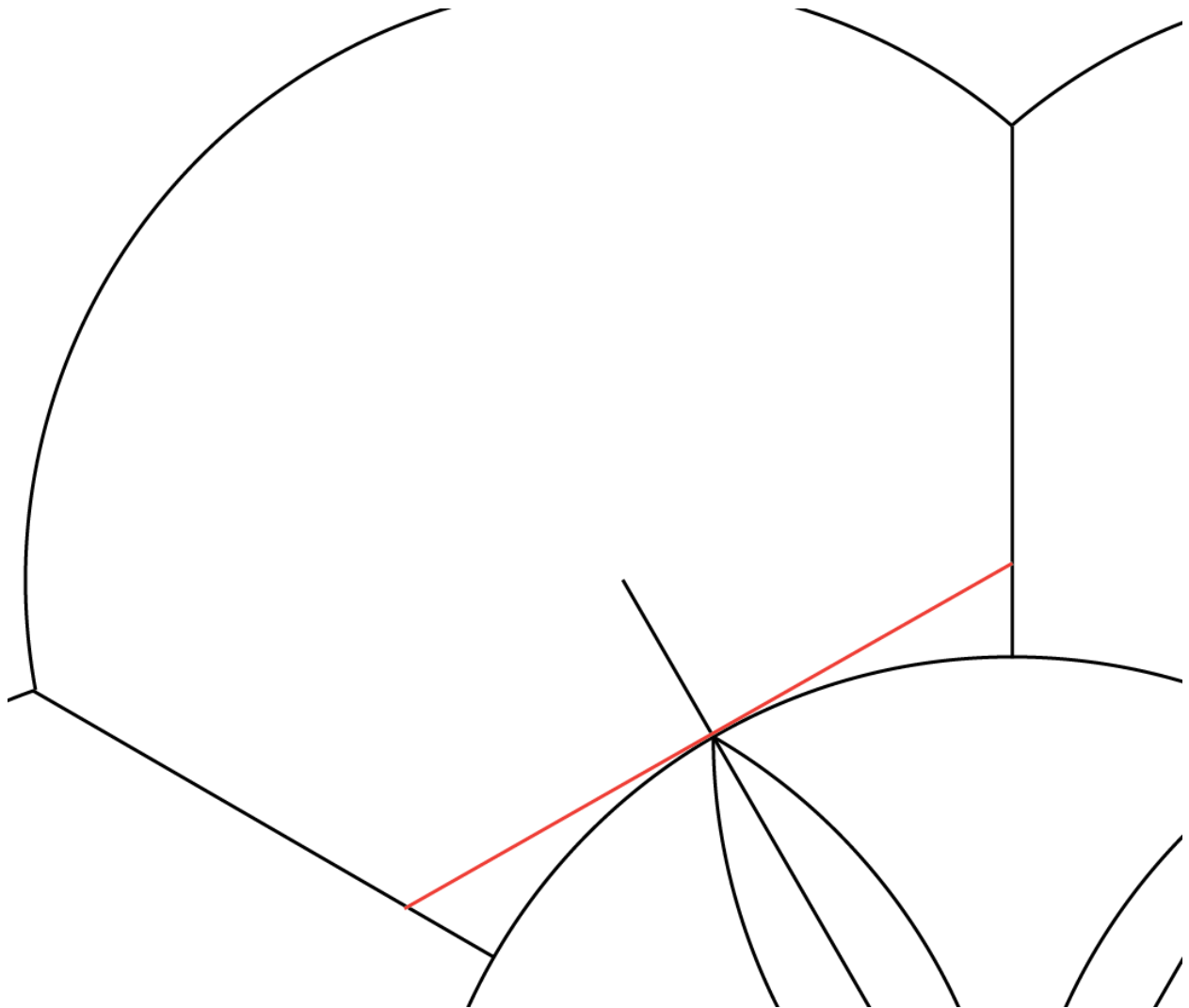
Using a ruler and knife (or scissors), cut all these lines:



Other circles removed for clarity

Step Ten

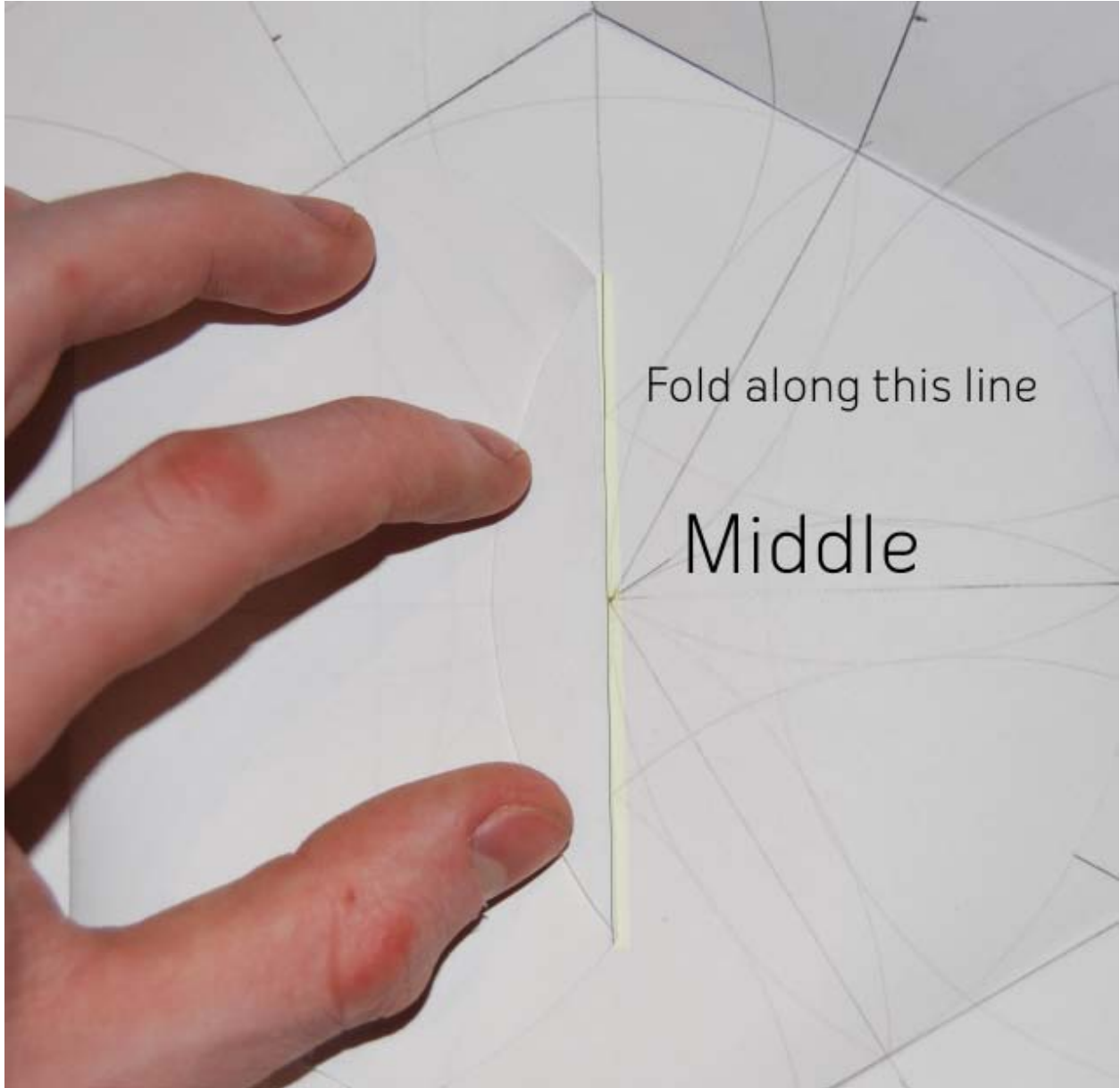
Then fold along these lines (on each segment):



Step Twelve – err.. Eleven

This is pretty tricky.

Now, fold in each “petal”, and then fold it back on itself where it meets the center, like this:



Step Twelve

Now place a CD in the middle, and fold all the petals over onto it (in order, from top around). Tuck the final one underneath the first to end up with this:



Further ideas: A friend of mine did something similar and punched holes in each of the folds, before putting a ribbon through them to keep it tied together. You could also tape it, etc.

I've included the hexagon template for you to draw whatever on, if you're lucky enough to have a 3D printer – or you could just print it on A4, cut it out, and stick it on. I've also included the vector.