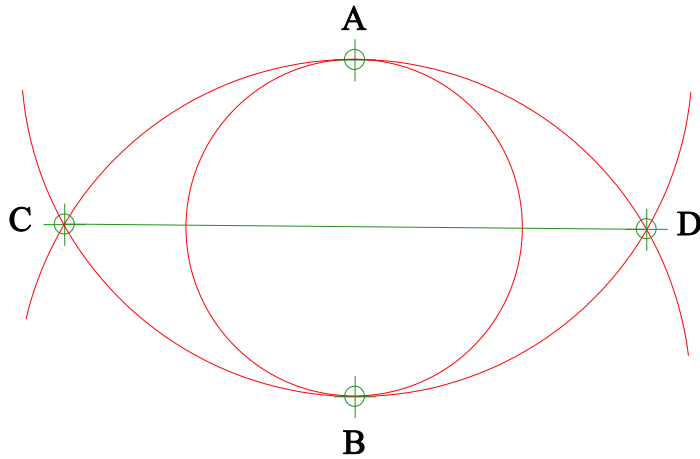


How to Draw a Hexagon with a Compass and Ruler



1 – The first step in making a pentagon is to make a circle, with a diameter the size of the pentagon, with your compass.

2 – Next you need to find the center lines, both horizontal and vertical.

a – Using your compass, draw an arc with the center on point A and the diameter of point A to B.

b - Using your compass, draw another arc centered on point B and the diameter of point B to A.

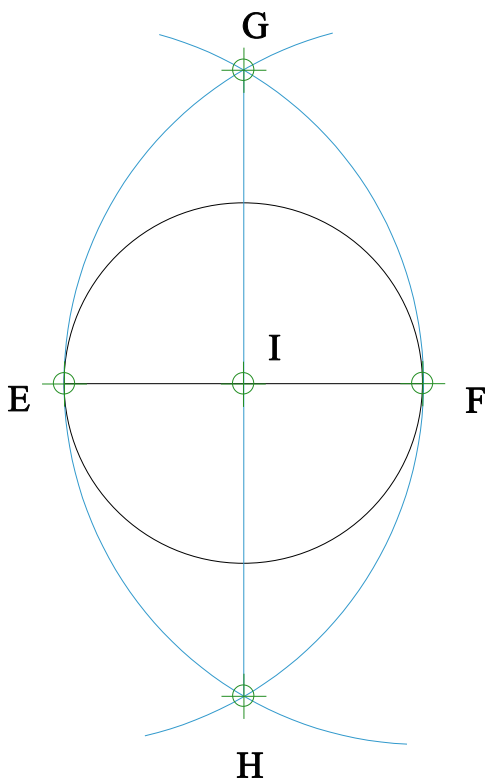
c – Draw a line between the arc intersections C & D.

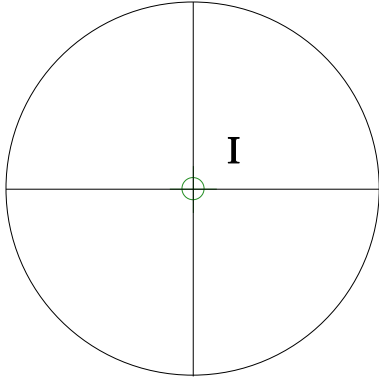
d - Using your compass, draw an arc with the centered on point E and the diameter of point E to F.

e - Using your compass, draw another arc with the centered on point F and the diameter of point E to F.

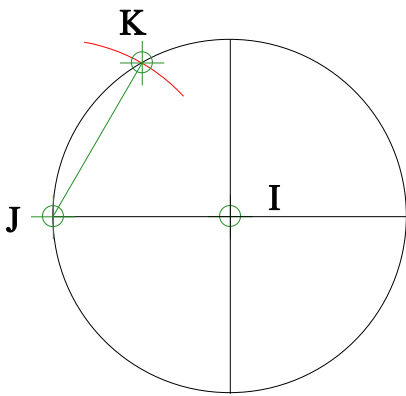
f – Draw a line between the arc intersections G & H.

G – Erase the arcs and trim the center lines to the circle.



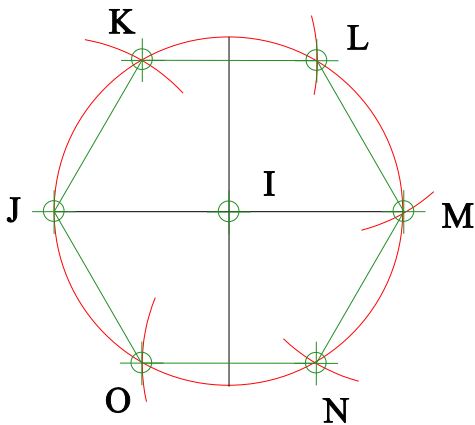


The intersection of these two lines is the center of the circle, point I.



3 – Draw an arc centering on point J and using line J – I as radius on the circle.

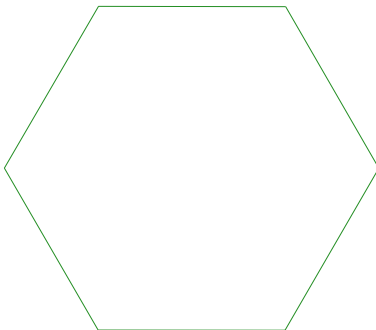
4 – Draw a line from point J to point K, the first line of the hexagon.



5 – Make a new arc centering on point k using line K – J as the radius on the circle.

6 – Draw a line from point K to point L, the second line of the hexagon.

7 – Continue steps 5 and 6 for the 3rd, 4th, 5th and 6th line to complete the hexagon



8 – remove the construction lines leaving the hexagon.