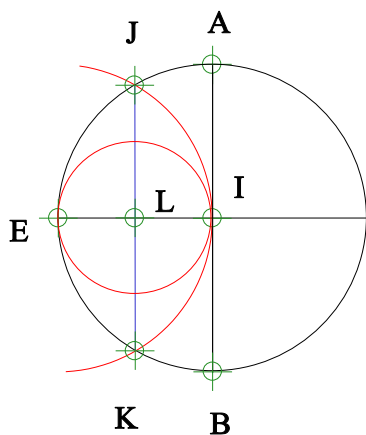
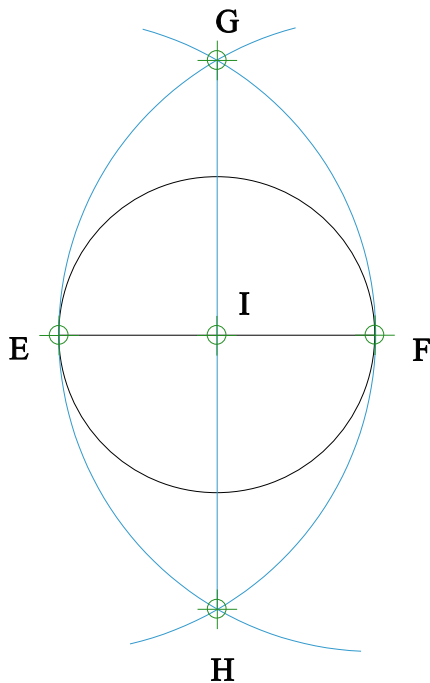
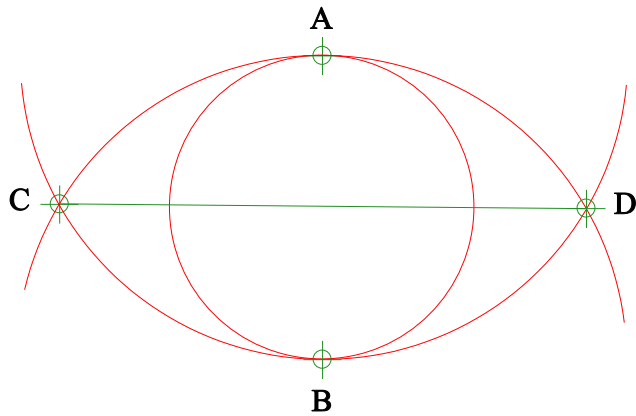


# How to Draw a Perfect Star with a Compass and Ruler



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

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.

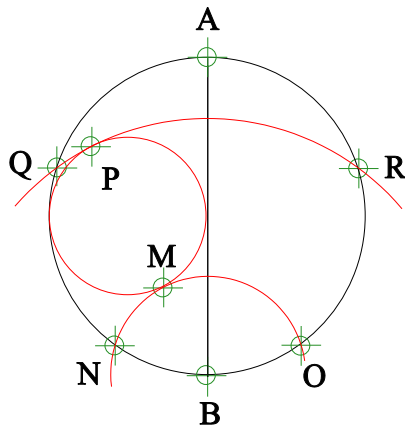
f – Draw a line between the arc intersections G & H.

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

3 – Draw an arc centering on point E with a radius of line E – I.

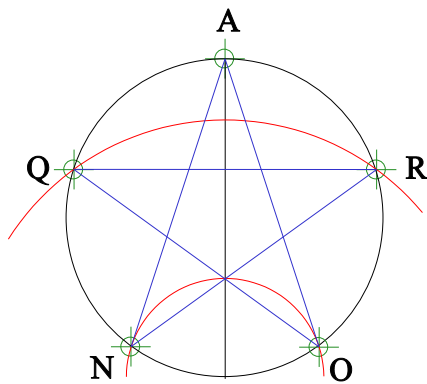
4 – Draw line from point J to point K.

5 – Draw a circle centered on point L with a radius of line L – I.



6 – Draw an arc centering on point B with a radius to the edge of circle at point M.

7 – Draw an arc centering on point B with a radius to the edge of circle at point P.



8 – Draw line connecting points A and O.

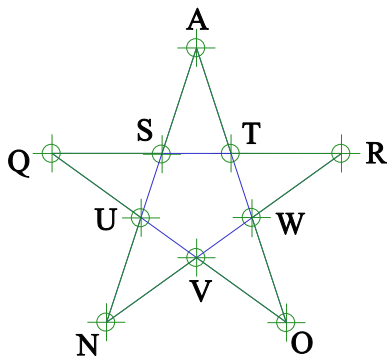
9 – Draw line connecting points O and Q.

10 – Draw line connecting points Q and R.

11 – Draw line connecting points R and N.

12 – Draw line connecting points N and A.

13 – Remove the circle and arcs.



14 – Draw a line connecting points A and T.

15 - Draw a line connecting points T and R.

16 - Draw a line connecting points R and W.

17 - Draw a line connecting points W and O.

18 - Draw a line connecting points O and V.

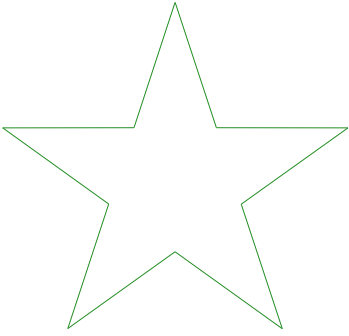
19 - Draw a line connecting points V and N.

20 - Draw a line connecting points N and U.

21 - Draw a line connecting points U and Q.

22 - Draw a line connecting points Q and S.

23 - Draw a line connecting points S and A.



24 – Remove the construction lines leaving the star.