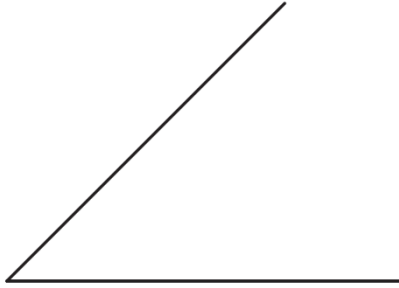


Bisecting Angles with Compass and Ruler

1. Bisect the angles shown.

a.



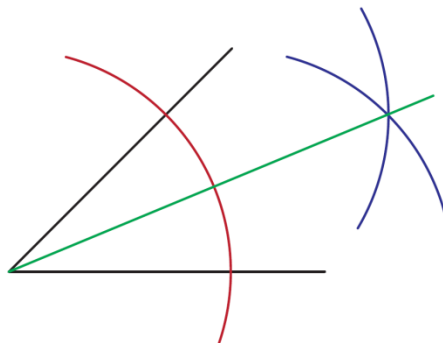
Step 1: Place the compass point on the vertex of the angle.

Step 2: Using the compass, draw an arc that cuts through both arms of the angle.

Step 3: Without moving the legs of the compass, put the compass point where the arc and the bottom angle arm intersect. Make an arc in the centre of the angle.

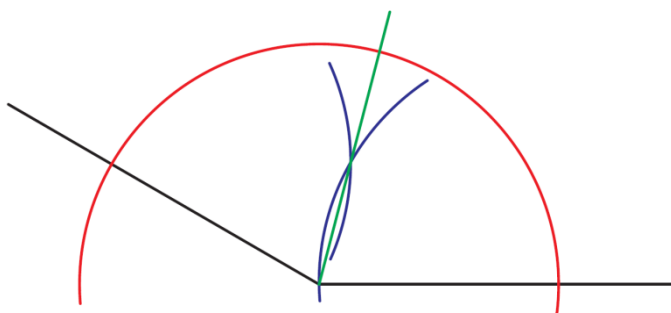
Step 4: Without moving the legs of the compass, put the compass point where the top angle arm and the original arc intersect. Make an arc in the centre of the angle.

Step 5: Connect the vertex of the angle with the point where the two small arcs intersect.



The angle is now bisected.

b.

***Steps 1 – 5:****The angle is now bisected.*