

Draw circle B : center B , any radius.

Label the intersections of circle B with the sides of the angle as A and C .

Label the vertex of the original angle as B .

Draw \overrightarrow{ED} .

Draw \overrightarrow{EG} as one side of the angle to be drawn.

Draw circle F : center F , radius FA .

Draw circle E : center E , radius EA .

Label intersection of circle E with \overrightarrow{EG} as F .

Label either intersection of circle E and circle F as D .