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| 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 $\vec{ED}$. |
| Draw $\vec{EG}$ 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 $\vec{EG}$ as $F$. |
| Label either intersection of circle $E$ and circle $F$ as $D$. |