Reflection

Steps to construct the reflection of $△ABC$ over line $DE$. Follow the steps below to get started; then complete the construction on your own.

Step 1: Construct circle $A$: Create a circle with center$A$, and a radius such that the circle crosses $\overbar{DE}$ at two points (labeled the intersections of Circle $A$ and $\overbar{DE}$ $F$ and $G$).

Step 2: Construct circle $F$: Create a circle with center$F$, and radius $\overbar{FA}$, and circle $G$: Create a circle with center $G$, and radius $\overbar{GA}$. Label the point of intersection between circles $F$ and $G$ as point $A'$. This is the reflection of vertex $A$ across $\overbar{DE}$.

Step 3: Repeat steps 1 and 2 for vertices $B$ and $C$ to locate $B'$ and $C'$.

Step 4: Connect $A^{'}$, $B^{'}$, and$ C'$ to construct the reflected triangle.

