## Common Core Geometry Proof - Lines and Angles_4 <br> Points on Perpendicular Bisector

Theorem: If a point lies on the perpendicular bisector of a line segment, then it is equidistant from the segment's endpoints.
Given: $\overleftrightarrow{D E}$ is the perpendicular bisector of $\overline{A C}$, intersecting at point B F is a point on $\overleftrightarrow{D E}$

Prove: $\overline{A F} \cong \overline{C F}$


Statement

## Reason

