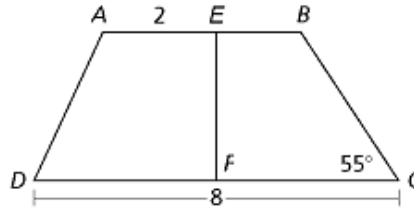The segment $\overline{EF}$ is a line of reflection symmetry for trapezoid $ABCD$. The measure of $\angle C$ is 55°; the measure of $\overline{CB} = 3.6$; the measure of $\overline{AE} = 2$; and the measure of $\overline{CD} = 8$. Find the measures of $\overline{EB}$, $\overline{DF}$, $\overline{FC}$, $\overline{AD}$, and angles A, B, and D.

Explain and justify your reasoning.