In the right triangle below $\sin E = \dfrac{3}{5}$.
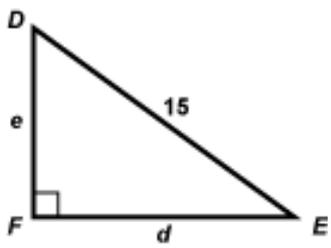

What is the length of $\overline{FE}$?

The length of $\overline{FE}$ is _____.