8.G Creating Similar Triangles

Task

In triangle $ABC$ below, $\angle B$ is a right angle and $|AB| = |BC|$: 

![Triangle ABC](image)

Draw a line segment joining one of the vertices of $\triangle ABC$ to the opposite side so that it divides $\triangle ABC$ into two triangles which are both similar to $\triangle ABC$. Explain, using rigid motions and dilations, why the triangles are similar.