# 8.G Creating Similar Triangles 

## Task

In triangle $A B C$ below, $\angle B$ is a right angle and $|A B|=|B C|$ :


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