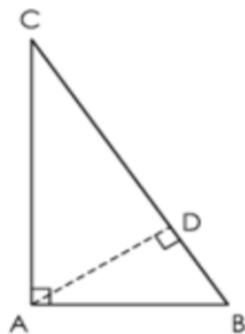


Proofs for Math 2

Proofs.

Problem 1 *Adapted from Ohio's 2017 Geometry released item 17.*



Complete the following proof that $\triangle DAC$ is similar to $\triangle DBA$:

- (a) $\triangle ABC \sim \triangle DBA$ by the AA criterion because they share $\angle B$ and they each have a right angle.
- (b) $\triangle ABC \sim \triangle DAC$ by the AA criterion because they share $\angle C$ and they each have a right angle.
- (c) $\triangle DAC \sim \triangle DBA$ because they are both similar to $\triangle ABC$.