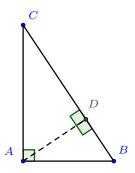
Similar Right Triangles

 $Proofs\ updated.$

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



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

- (a) $\triangle ABC \sim \triangle \boxed{DBA}$ by (AA similarity \checkmark / CPCTC/ right triangle similarity) because they share $\angle B$ and they each have a right angle.
- (b) $\triangle ABC \sim \triangle DAC$ for the same reason because they share $(\angle A/\angle B/\angle C)$ and they each have a right angle.
- (c) $\triangle DAC \sim \triangle \boxed{DBA}$ because they are both similar to $\triangle ABC$.

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