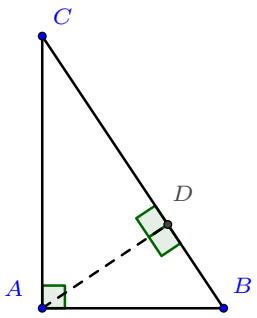
Similar Right Triangles

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) $\triangle ABC \sim \triangle \boxed{DBA}$ *by AA because they share $\angle B$ and they each have a right angle.*

(b) $\triangle ABC \sim \triangle \boxed{DAC}$ *by AA because they share $\angle C$ and they each have a right angle.*

(c) $\triangle DAC \sim \triangle \boxed{DBA}$ *because they are both similar to $\triangle ABC$.*

Fixnote: Need to prompt for AA in the first two steps.
The 2017 EOC item calls AA a postulate, which it is not.
Should AA be called a criterion? a theorem? a condition?

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