Geometry Practice: G.G.28 #3

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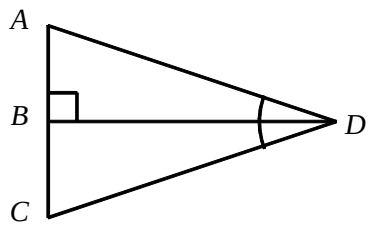
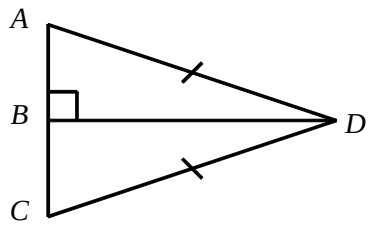
P.I. G.G.28: Determine the congruence of two triangles by using one of the five congruence techniques (SSS, SAS, ASA, AAS, HL), given sufficient information about the sides and/or angles of two congruent triangles

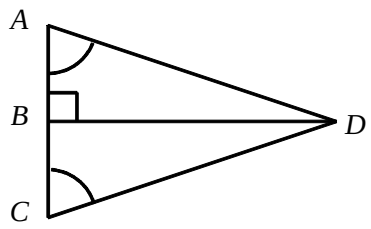
1. Is $\Delta ABD \cong \Delta CBD$ by HL? If so, state the leg that allows the use of HL.



2. Is $\Delta ABD \cong \Delta CBD$ by HL? If so, state the leg that allows the use of HL.



3. Is $\Delta ABD \cong \Delta CBD$ by HL? If so, state the leg that allows the use of HL.



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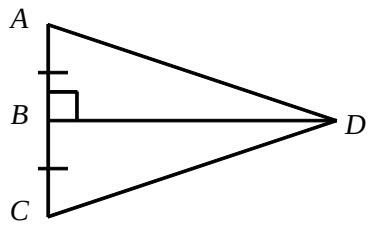
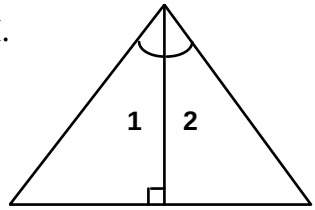
4. Is $\Delta ABD \cong \Delta CBD$ by HL? If so, state the leg that allows the use of HL.

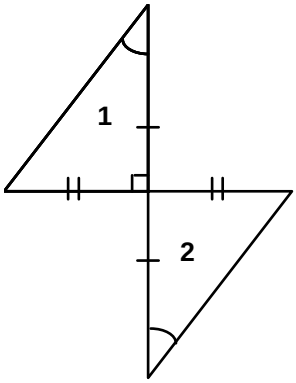


5. In which of the following could you efficiently prove $\Delta 1 \cong \Delta 2$ using the HL Theorem?

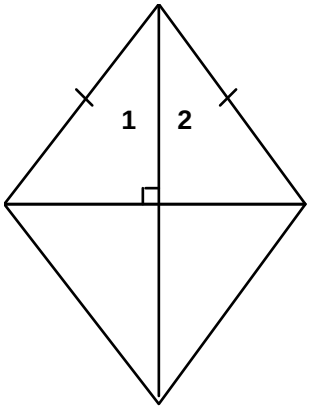
I.



II.



III.



[A] I and II [B] III only [C] II only [D] II and III [E] I only

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[1] No

[2] Yes, $\overline{BD}$

[3] No

[4] No

[5] B