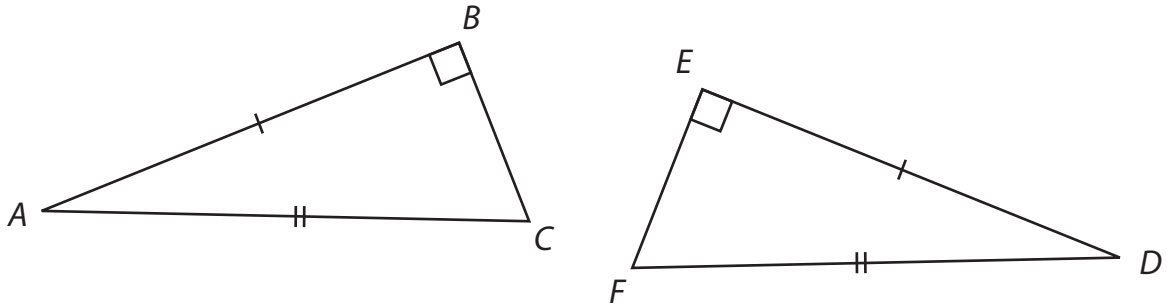


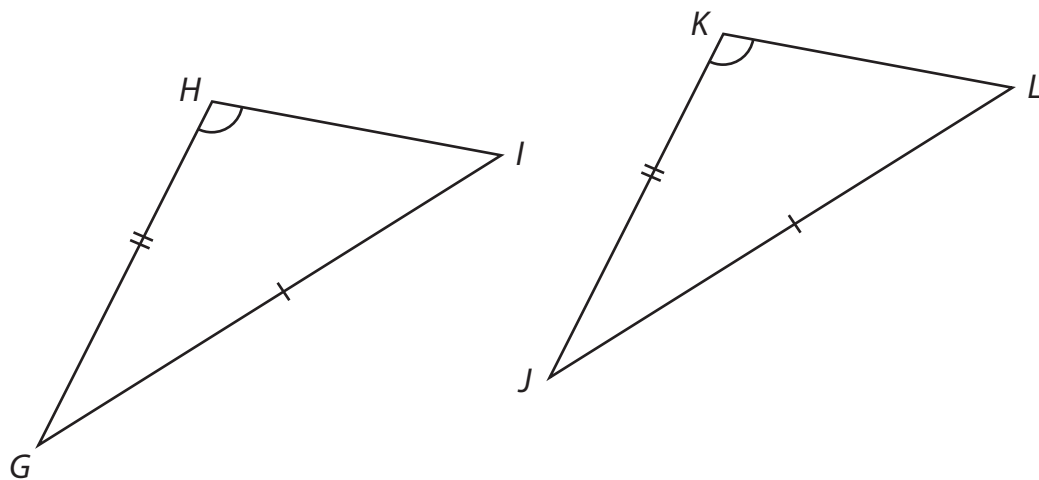
Practice: Triangle Congruence Criteria**A**

For each diagram, determine which congruence statement can be used to show that the triangles are congruent. If it is not possible to prove triangle congruence, explain why not.

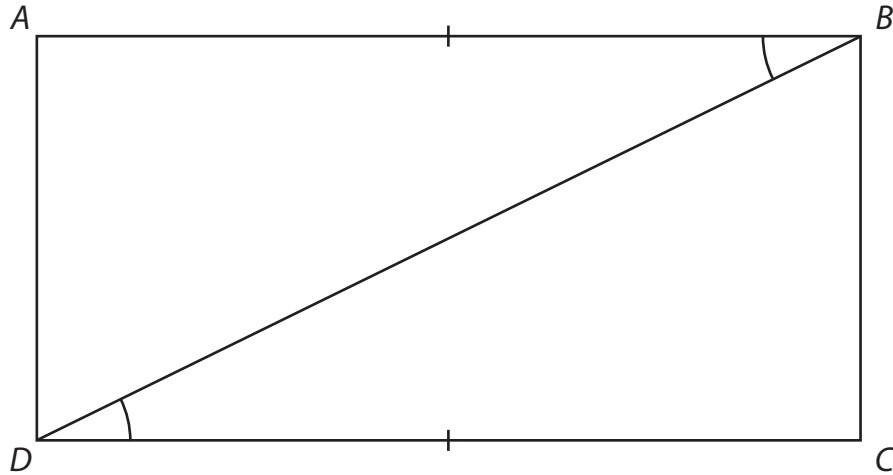
1.



2.

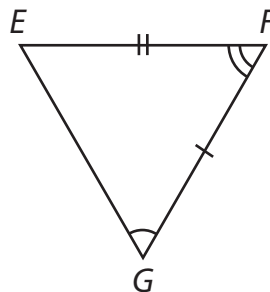
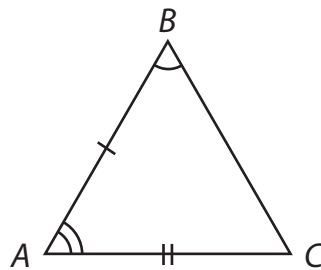
**continued**

3. Based on the information in the diagram, is $\triangle ABD$ congruent to $\triangle CDB$?



Use the given information to determine which congruence statement can be used to show that the triangles are congruent. If it is not possible to prove triangle congruence, explain why not.

4. $\triangle STU$ and $\triangle VWX$: $\angle S \cong \angle V$, $\angle U \cong \angle X$, and $\overline{ST} \cong \overline{VW}$
5. $\triangle MNO$ and $\triangle PQR$: $\angle O \cong \angle R$, $\overline{MO} \cong \overline{PR}$, and $\overline{NO} \cong \overline{QR}$
6. $\triangle GHI$ and $\triangle JKL$: $\angle G \cong \angle H$, $\overline{HI} \cong \overline{KL}$, $\angle J \cong \angle K$
7. Jessalyn found two vintage road signs at a thrift store. She is re-decorating her room and congruency is important for her decor. Based on the information about each sign shown in the diagram below, determine if the triangles are congruent. If so, name the congruent triangles and identify the congruence statement used.



continued

Name: _____

Date: _____

9. The Kim family owns the plot of land marked by $\triangle IKD$ and the Reed family owns the plot of land marked $\triangle KDE$. If $\overline{ID} \approx \overline{EK}$, are the plots of land congruent? Explain your reasoning.

10. The Larsen family owns the plot of land marked by $\triangle FGL$ and the Rodriguez family owns the plot of land marked by $\triangle CDJ$. Are the two plots of land congruent? Explain your reasoning.