Classroom Exercises

State which congruence method(s) can be used to prove the triangles congruent. If no method applies, say *none*.

1.

2.

3.

4.

5.

6.

7.

8.

9.
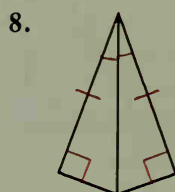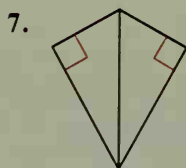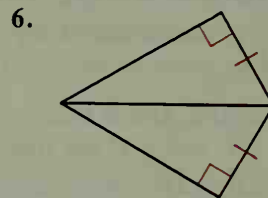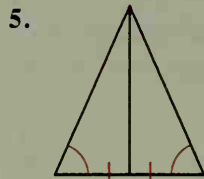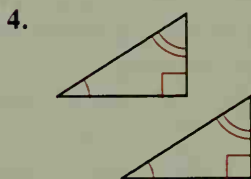
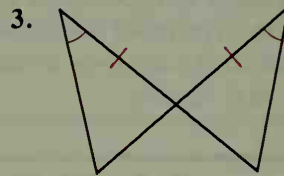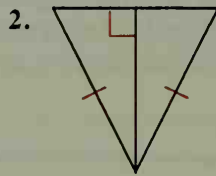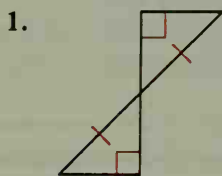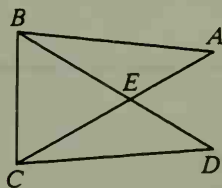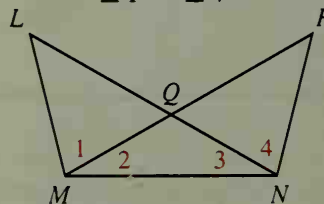For each diagram, name a pair of overlapping triangles. Tell whether the triangles are congruent by the SSS, SAS, ASA, AAS, or HL method.
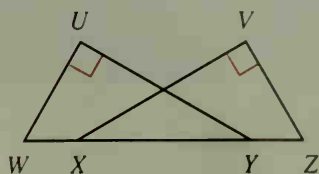
10. Given: $\overline{AB} \cong \overline{DC}$;
    $\overline{AC} \cong \overline{DB}$

11. Given: $\angle 2 \cong \angle 3$;
    $\angle 1 \cong \angle 4$

12. Given: $\overline{WU} \cong \overline{ZV}$;
    $WX = YZ$;
    $\angle U$ and $\angle V$ are rt. $\angle\!\!\!\angle$.

13. Given: $\angle ABC \cong \angle ACB$;
    $\overline{AE} \perp \overline{EC}$;
    $\overline{AD} \perp \overline{DB}$