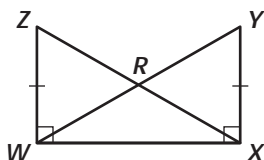


# Practice 8-5

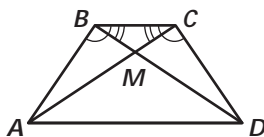
## Mixed Exercises

Name a pair of overlapping congruent triangles in each diagram. State whether the triangles are congruent by SSS, ASA, AAS, or HL.

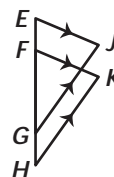
1. Given:  $\overline{ZW} \cong \overline{XY}$ ,  $\angle YXW$  and  $\angle ZWX$  are right  $\angle$ s



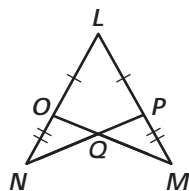
2. Given:  $\angle ABC \cong \angle DCB$ ,  $\angle CBD \cong \angle BCA$



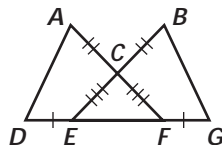
3. Given:  $\overline{EJ} \parallel \overline{FK}$ ,  $\overline{GJ} \parallel \overline{HK}$ ,  $\overline{EG} \cong \overline{HF}$



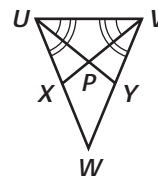
4. Given:  $\overline{LP} \cong \overline{LO}$ ,  $\overline{PM} \cong \overline{ON}$



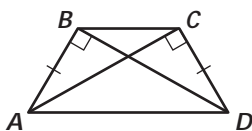
5. Given:  $\overline{DE} \cong \overline{FG}$ ,  $\overline{AC} \cong \overline{CB}$ ,  $\overline{EC} \cong \overline{FC}$



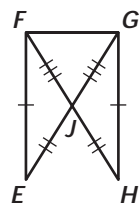
6. Given:  $\angle YUV \cong \angle XVU$ ,  $\angle WUV \cong \angle WVU$



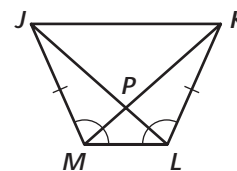
7. Given:  $\overline{AB} \cong \overline{CD}$ ,  $\angle ABD$  and  $\angle DCA$  are right  $\angle$ s



8. Given:  $\overline{FE} \cong \overline{GH}$ ,  $\overline{FJ} \cong \overline{JG}$ ,  $\overline{EJ} \cong \overline{HJ}$



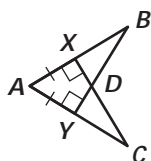
9. Given:  $\overline{KL} \cong \overline{JM}$ ,  $\angle KLM \cong \angle JML$



Write a two-column proof, a paragraph proof, or a flow proof.

10. Given:  $\overline{AX} \cong \overline{AY}$ ,  $\overline{CX} \perp \overline{AB}$ ,  $\overline{BY} \perp \overline{AC}$

Prove:  $\triangle BYA \cong \triangle CXA$



11. Given:  $\overline{FH} \cong \overline{GE}$ ,  $\angle HFG \cong \angle EGF$

Prove:  $\triangle GEH \cong \triangle FHE$

