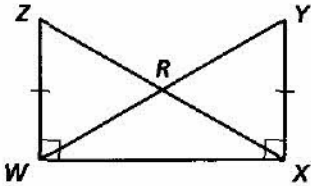


# Practice 4-7

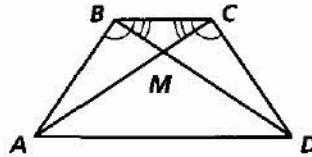
## Using Corresponding Parts of Congruent Triangles

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

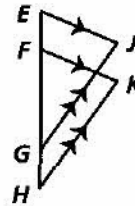
1. Given:  $\overline{ZW} \cong \overline{XY}$ ,  $\angle YXW$  and  $\angle ZWX$  are right  $\angle$ s



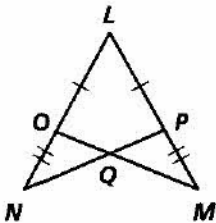
2. Given:  $\angle ABC \cong \angle DCB$ ,  $\angle CBD \cong \angle BCA$



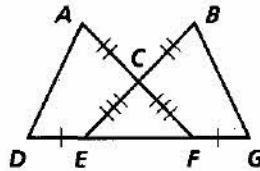
3. Given:  $\overline{EJ} \parallel \overline{FK}$ ,  $\overline{GJ} \parallel \overline{HK}$ ,  $\overline{EG} \cong \overline{HF}$



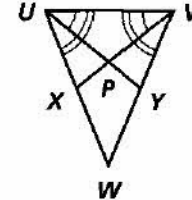
4. Given:  $\overline{LP} \cong \overline{LO}$ ,  $\overline{PM} \cong \overline{ON}$



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

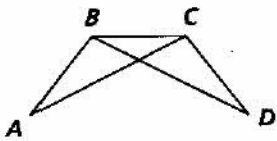


6. Given:  $\angle YUV \cong \angle XVU$ ,  $\angle WUV \cong \angle WVU$

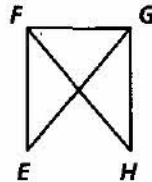


Separate and redraw the indicated triangles. Identify any common angles or sides.

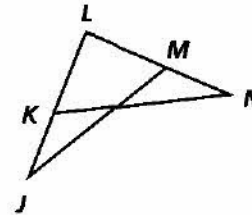
7.  $\triangle ABC$  and  $\triangle DCB$



8.  $\triangle EFG$  and  $\triangle HGF$

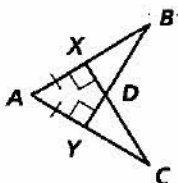


9.  $\triangle JML$  and  $\triangle NKL$

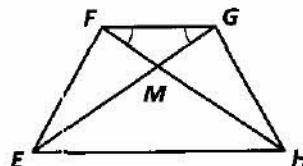


Write a two-column proof, a paragraph proof, or a flow proof.

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:  $\triangle GEH \cong \triangle FHE$



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