Name _____ Class _____ Date _____

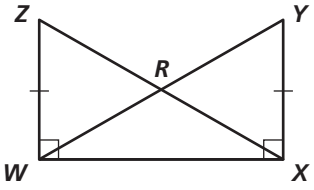
Practice 4-7

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.

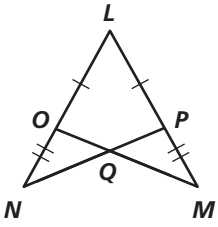
1. _____

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



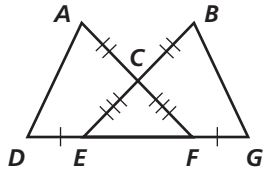
2. _____

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



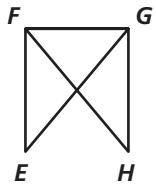
3. _____

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

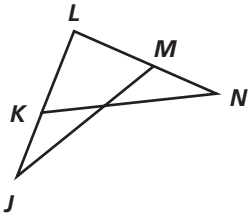


Separate and redraw the indicated triangles. Identify any common angles or sides.

4. $\triangle EFG$ and $\triangle HGF$



5. $\triangle JML$ and $\triangle NKL$



6. Write a two-column proof.

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

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