

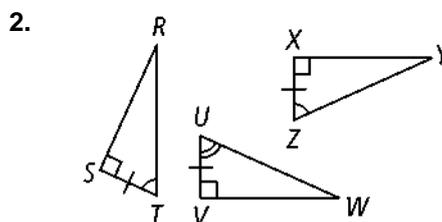
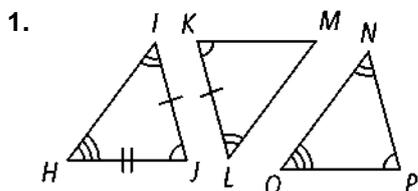
4-3

Practice

Form G

Triangle Congruence by ASA and AAS

Name two triangles that are congruent by ASA.



3. **Developing Proof** Complete the proof by filling in the blanks.

Given: $\angle HIJ \cong \angle KIJ$

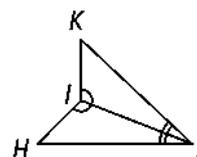
$\angle IJH \cong \angle IJK$

Prove: $\triangle HIJ \cong \triangle KIJ$

Proof: $\angle HIJ \cong \angle KIJ$ and $\angle IJH \cong \angle IJK$ are given.

$\overline{IJ} \cong \overline{IJ}$ by ?.

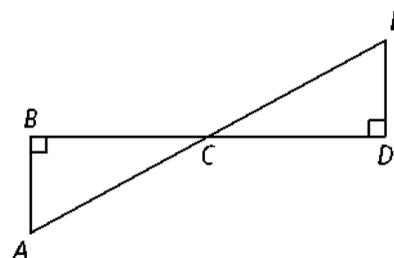
So, $\triangle HIJ \cong \triangle KIJ$ by ?.



4. **Given:** $\angle B$ and $\angle D$ are right angles.

\overline{AE} bisects \overline{BD}

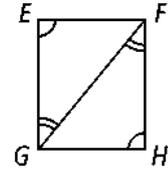
Prove: $\triangle ABC \cong \triangle EDC$



5. **Given:** $\angle E \cong \angle H$

$$\angle HFG \cong \angle EGF$$

Prove: $\triangle EGF \cong \triangle HFG$

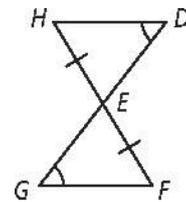


For Exercises 6 and 7, write a paragraph proof.

6. **Given:** $\angle D \cong \angle G$

$$\overline{HE} \cong \overline{FE}$$

Prove: $\triangle EFG \cong \triangle EHD$



7. **Given:** \overline{JM} bisects $\angle J$.

$$\overline{JM} \perp \overline{KL}$$

Prove: $\triangle JMK \cong \triangle JML$

