

# 4-3

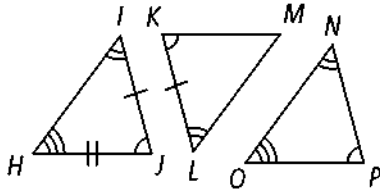
## Practice

Form G

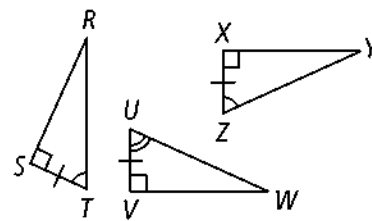
### Triangle Congruence by ASA and AAS

Name two triangles that are congruent by ASA.

1.



2.



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

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

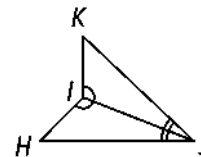
$\angle IJH \cong \angle IJK$

**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 ?.

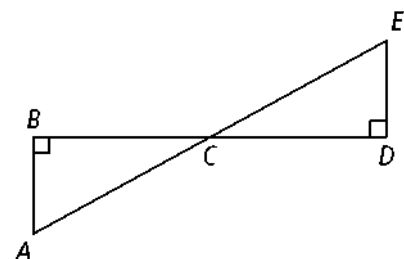
So,  $\triangle HIJ \cong \triangle KIJ$  by ?.



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

$\overline{AE}$  bisects  $\overline{BD}$

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

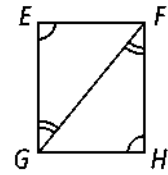


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

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

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

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

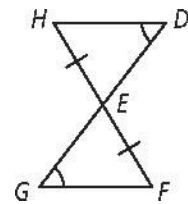


**For Exercises 6 and 7, write a paragraph proof.**

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:**  $\triangle JMK \cong \triangle JML$

