

Name \_\_\_\_\_

Date \_\_\_\_\_

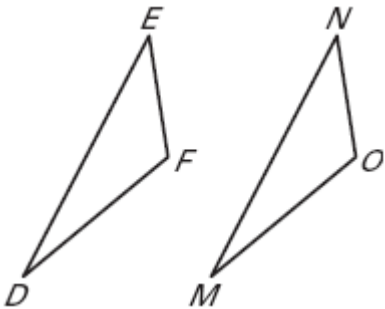
LESSION 4.5

**Practice B**

For use with pages 249–255

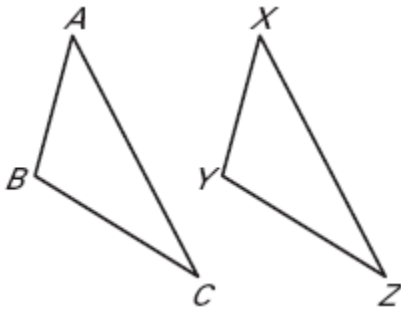
State the third congruence that is needed to prove that  $\triangle DEF \cong \triangle MNO$  using the given postulate or theorem.

1. GIVEN:  $\overline{DE} \cong \overline{MN}$ ,  $\angle M \cong \angle D$ ,  $\underline{\quad ? \quad} \cong \underline{\quad ? \quad}$  Use the SAS Congruence Postulate.
2. GIVEN:  $\overline{FE} \cong \overline{ON}$ ,  $\angle F \cong \angle O$ ,  $\underline{\quad ? \quad} \cong \underline{\quad ? \quad}$  Use the AAS Congruence Theorem.
3. GIVEN:  $\overline{DF} \cong \overline{MO}$ ,  $\angle F \cong \angle O$ ,  $\underline{\quad ? \quad} \cong \underline{\quad ? \quad}$  Use the ASA Congruence Postulate.



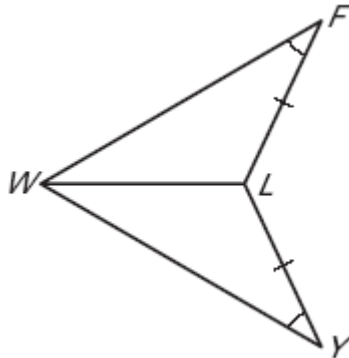
State the third congruence that is needed to prove that  $\triangle ABC \cong \triangle XYZ$  using the given postulate or theorem.

4. GIVEN:  $\angle A \cong \angle X$ ,  $\angle B \cong \angle Y$ ,  $\underline{\quad ? \quad} \cong \underline{\quad ? \quad}$  Use the AAS Congruence Theorem.
5. GIVEN:  $\angle A \cong \angle X$ ,  $\overline{AB} \cong \overline{XY}$ ,  $\underline{\quad ? \quad} \cong \underline{\quad ? \quad}$  Use the ASA Congruence Postulate.
6. GIVEN:  $\overline{BC} \cong \overline{YZ}$ ,  $\angle C \cong \angle Z$ ,  $\underline{\quad ? \quad} \cong \underline{\quad ? \quad}$  Use the SAS Congruence Theorem.

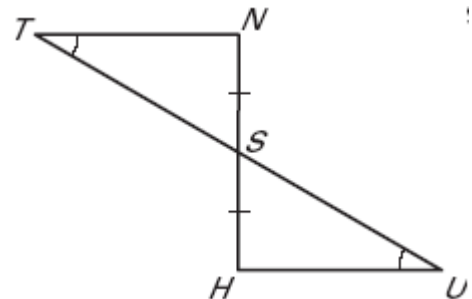


Is it possible to prove that the triangles are congruent? If so, state the postulate(s) or theorem(s) you would use.

7.



8.



Tell whether you can use the given information to determine whether  $\triangle JRM = \triangle XYZ$ .

Explain your reasoning.

9.  $\overline{JM} \cong \overline{XZ}$ ,  $\angle M \cong \angle Z$ ,  $\angle R \cong \angle Y$

10.  $\overline{JM} \cong \overline{XZ}$ ,  $\overline{JR} \cong \overline{XY}$ ,  $\angle J \cong \angle X$

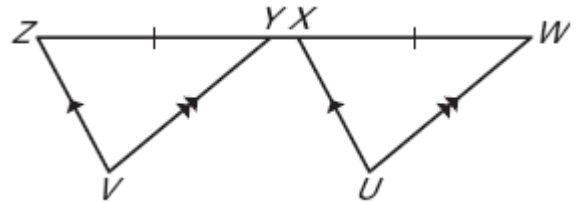
11.  $\angle J \cong \angle X$ ,  $\angle M \cong \angle Z$ ,  $\angle R \cong \angle Y$

12.  $\angle M \cong \angle Z$ ,  $\angle R \cong \angle Y$ ,  $\overline{JM} \cong \overline{XY}$

13. **Proof** Write a proof.

**GIVEN:**  $\overline{WU} \parallel \overline{YV}$ ,  $\overline{XU} \parallel \overline{ZV}$ ,  $\overline{WX} \cong \overline{YZ}$

**PROVE:**  $\triangle WXU \cong \triangle YZV$



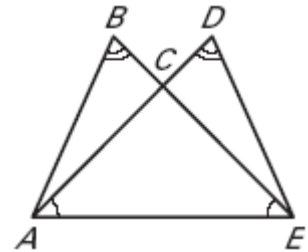
Statements

Reasons

14. **Proof** Write a proof.

**GIVEN:**  $\angle B \cong \angle D$ ,  $\angle DAE \cong \angle BEA$

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



Statements

Reasons