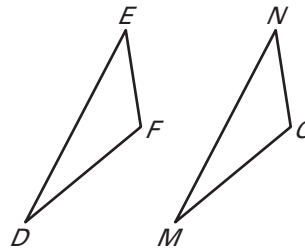


**LESSON**  
**4.5**
**Practice B**
*For use with pages 249–255*

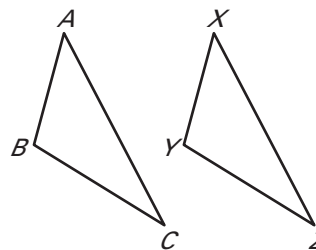
State the third congruence that is needed to prove that  $\triangle DEF \cong \triangle MNO$  using the given postulate or theorem.

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

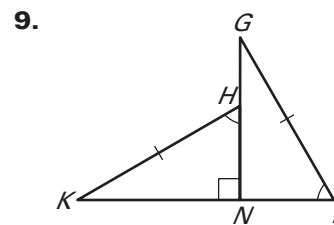
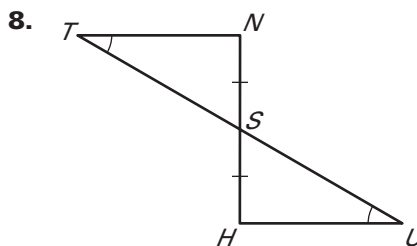
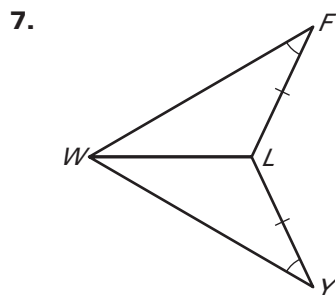


State the third congruence that is needed to prove that  $\triangle ABC \cong \triangle XYZ$  using the given postulate or theorem.

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



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



Tell whether you can use the given information to determine whether  $\triangle JRM \cong \triangle XYZ$ . Explain your reasoning.

- $\overline{JM} \cong \overline{XZ}$ ,  $\angle M \cong \angle Z$ ,  $\angle R \cong \angle Y$
- $\angle J \cong \angle X$ ,  $\angle M \cong \angle Z$ ,  $\angle R \cong \angle Y$
- $\overline{JM} \cong \overline{XZ}$ ,  $\overline{JR} \cong \overline{XY}$ ,  $\angle J \cong \angle X$
- $\angle M \cong \angle Z$ ,  $\angle R \cong \angle Y$ ,  $\overline{JM} \cong \overline{XY}$

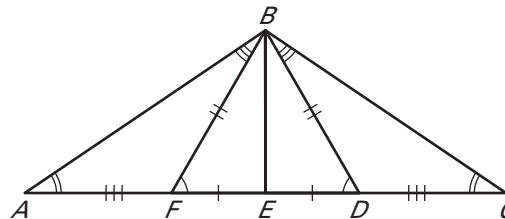
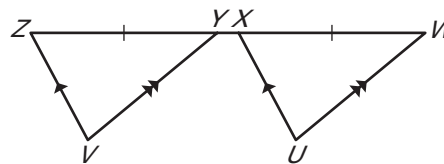
LESSON  
4.5**Practice B** *continued*  
For use with pages 249–255

**Explain how you can prove that the indicated triangles are congruent using the given postulate or theorem.**

14.  $\triangle BEF \cong \triangle BED$  by SAS

15.  $\triangle ADB \cong \triangle CFB$  by ASA

16.  $\triangle AFB \cong \triangle CDB$  by AAS

17. **Proof** Complete the proof.**GIVEN:**  $\overline{WU} \parallel \overline{YV}$ ,  $\overline{XU} \parallel \overline{ZV}$ ,  $\overline{WX} \cong \overline{YZ}$ **PROVE:**  $\triangle WXU \cong \triangle YZV$ **Statements**

1.  $\overline{WU} \parallel \overline{YV}$

2.  $\angle UWX \cong \angle VYZ$

3.  $\overline{XU} \parallel \overline{ZV}$

4.  $\angle UXW \cong \angle VZY$

5.  $\overline{WX} \cong \overline{YZ}$

6.  $\triangle WXU \cong \triangle YZV$

**Reasons**

1. ?

2. ?

3. ?

4. ?

5. ?

6. ?

18. **Proof** Write a proof.**GIVEN:**  $\angle B \cong \angle D$ ,  $\angle DAE \cong \angle BEA$ **PROVE:**  $\triangle ABC \cong \triangle EDC$ 