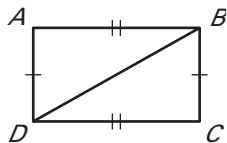
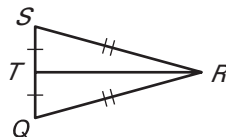


**LESSON**  
**4.3**
**Practice**
*For use with pages 233–239*
**Decide whether the congruence statement is true. Explain your reasoning.**

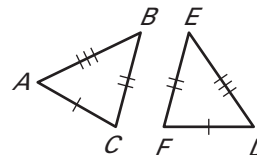
**1.**  $\triangle ABD \cong \triangle CDB$



**2.**  $\triangle RST \cong \triangle RQT$



**3.**  $\triangle ABC \cong \triangle DEF$

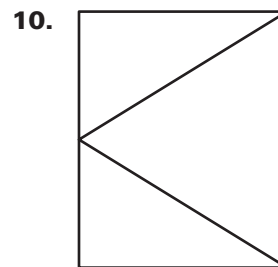
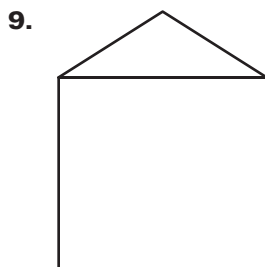
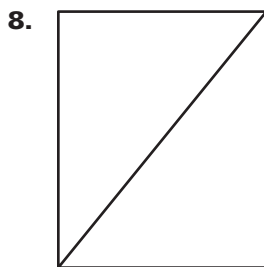

**Use the given coordinates to determine if  $\triangle ABC \cong \triangle DEF$ .**

**4.**  $A(1, 2), B(4, -3), C(2, 5), D(4, 7), E(7, 2), F(5, 10)$

**5.**  $A(1, 1), B(4, 0), C(7, 5), D(4, -5), E(6, -6), F(9, -1)$

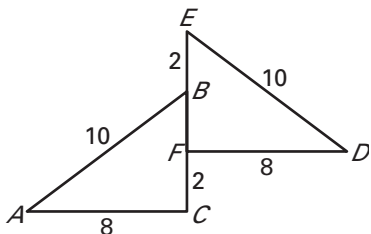
**6.**  $A(2, -2), B(5, 1), C(4, 8), D(7, 5), E(10, 8), F(9, 13)$

**7.**  $A(-3, 0), B(6, 2), C(-1, 9), D(4, -10), E(13, -8), F(6, -1)$

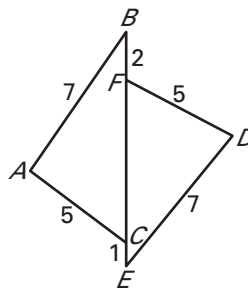
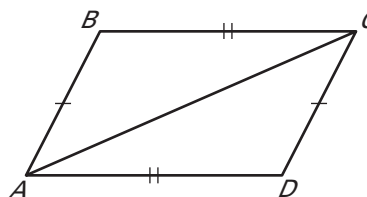
**Decide whether the figure is stable. Explain your reasoning.**


LESSON  
4.3**Practice** *continued*  
For use with pages 233–239**Determine whether  $\triangle ABC \cong \triangle DEF$ . Explain your reasoning.**

11.



12.

13. **Proof** Complete the proof.**GIVEN:**  $\overline{AB} \cong \overline{CD}$ ,  $\overline{BC} \cong \overline{AD}$ **PROVE:**  $\triangle ABC \cong \triangle CDA$ **Statements**1.  $\overline{AB} \cong \overline{CD}$ 2.  $\overline{BC} \cong \overline{AD}$ 3.  $\overline{AC} \cong \overline{AC}$ 4.  $\triangle ABC \cong \triangle CDA$ **Reasons**

1. ?

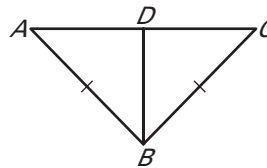
2. ?

3. ?

4. ?

LESSON  
4.3**Practice** *continued*  
For use with pages 233–239

- 14. Proof**
- Complete the proof.

**GIVEN:**  $\overline{AB} \cong \overline{CB}$ ,  $D$  is the midpoint of  $\overline{AC}$ .**PROVE:**  $\triangle ABD \cong \triangle CBD$ 

Statements	Reasons
1. $\overline{AB} \cong \overline{CB}$	1. ?
2. $D$ is the midpoint of $\overline{AC}$ .	2. ?
3. $\overline{AD} \cong \overline{CD}$	3. ?
4. $\overline{BD} \cong \overline{BD}$	4. ?
5. $\triangle ABD \cong \triangle CBD$	5. ?

- 15. Picture Frame**
- The backs of two different picture frames are shown below. Which picture frame is stable?
- Explain*
- your reasoning.

