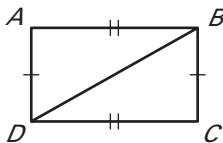
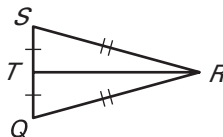


LESSON
4.3
Practice B
For use with pages 233–239
Decide whether the congruence statement is true. Explain your reasoning.

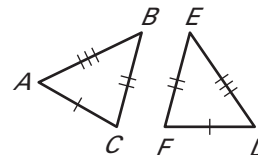
1. $\triangle ABD \cong \triangle CDB$



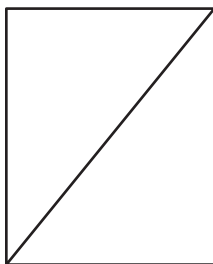
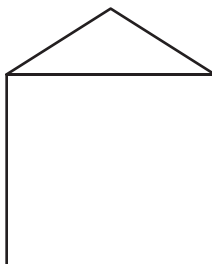
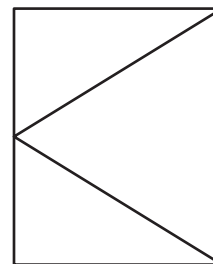
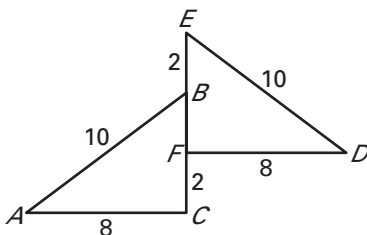
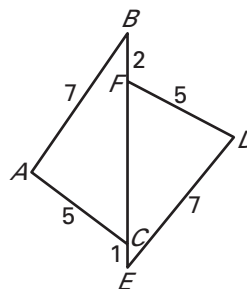
2. $\triangle RST \cong \triangle RQT$



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

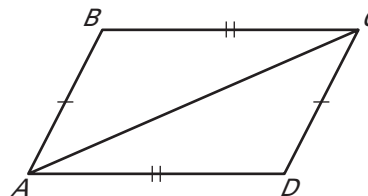

Use the given coordinates to determine if $\triangle ABC \cong \triangle DEF$.

- 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.
8.

9.

10.

Determine whether $\triangle ABC \cong \triangle DEF$. Explain your reasoning.
11.

12.


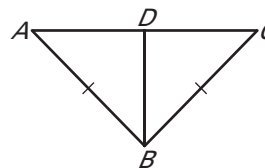
LESSON
4.3**Practice B** *continued*
For use with pages 233–239

- 13. Proof**
- Complete the proof.

GIVEN: $\overline{AB} \cong \overline{CD}$, $\overline{BC} \cong \overline{AD}$ **PROVE:** $\triangle ABC \cong \triangle CDA$ 

Statements	Reasons
1. $\overline{AB} \cong \overline{CD}$	1. ?
2. $\overline{BC} \cong \overline{AD}$	2. ?
3. $\overline{AC} \cong \overline{AC}$	3. ?
4. $\triangle ABC \cong \triangle CDA$	4. ?

- 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.

