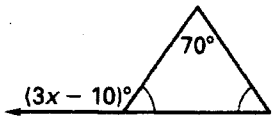
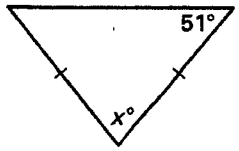
CHAPTER 4 CONTINUED

NAME _____ DATE _____

Chapter Test C

For use after Chapter 4

17. 

18. 

17. _____

18. _____

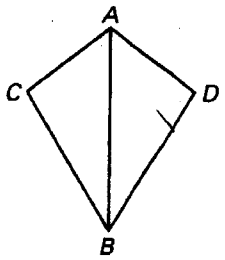
19. Use proof at left.

20. Use proof at left.

In Exercises 19 and 20, complete the proof.

19. **Given:** $\angle ABC \cong \angle ABD$
$\angle ACB \cong \angle ADB$

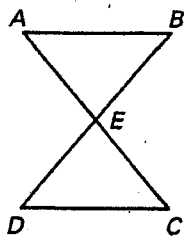
Prove: $\triangle ACB \cong \triangle ADB$



Statements	Reasons
1. _____	1. _____
2. _____	2. _____
3. $\overline{AB} \cong \overline{AB}$	3. _____
4. $\triangle ACB \cong \triangle ADB$	4. _____

20. **Given:** $\overline{AB} \parallel \overline{DC}$; $\overline{AB} \cong \overline{CD}$

Prove: $\triangle ABE \cong \triangle CDE$



Statements	Reasons
1. _____	1. _____
2. _____	2. _____
3. $\angle A \cong \angle C$	3. _____
4. $\angle B \cong \angle D$	4. _____
5. $\triangle ABE \cong \triangle CDE$	5. _____

Review and Assess

CHAPTER 4

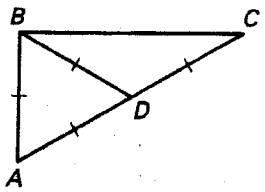
NAME _____ DATE _____

Chapter Test C

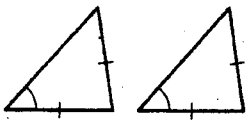
For use after Chapter 4

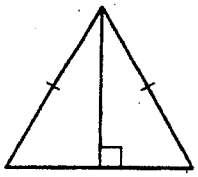
In Exercises 1–6, identify all triangles in the figure that fit the given description.

1. isosceles
2. equilateral
3. scalene
4. right
5. acute
6. obtuse



Decide whether it is possible to prove that the triangles are congruent. If it is possible, tell which congruence postulate or theorem you would use.

7. 

8. 

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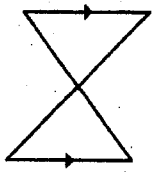
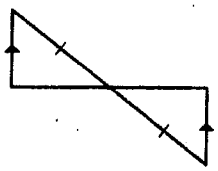
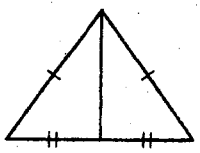
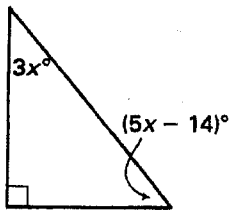
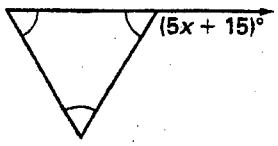
10. 

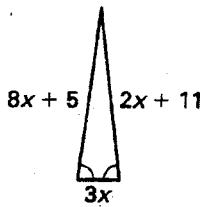
11. 

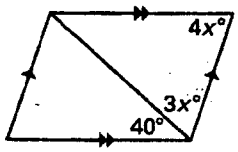
12. 

Find the value of *x*.

13. 

14. 

15. 

16. 

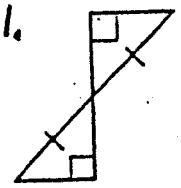
Answers

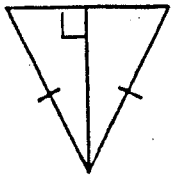
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____

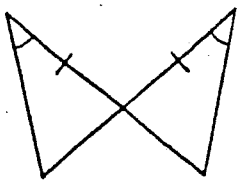
Review and Assess

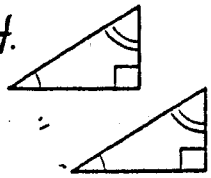
Name
Geom. Per. ____

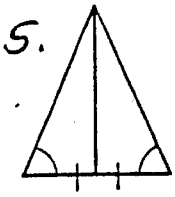
State which congruence method(s) can be used to prove the triangles congruent. If no method applies, say *none*.

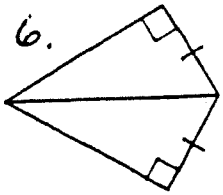
1. 

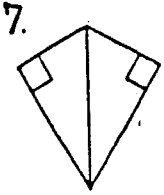
2. 

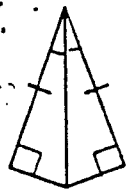
3. 

4. 

5. 

6. 

7. 

8. 

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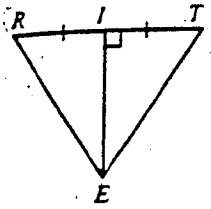
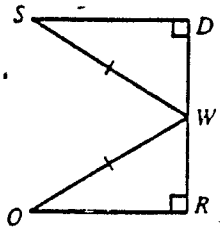
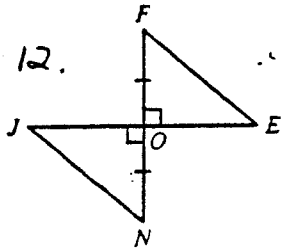
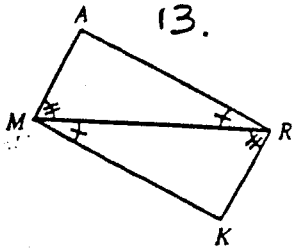
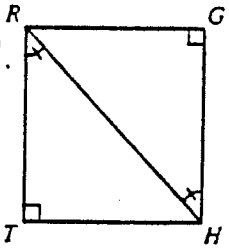
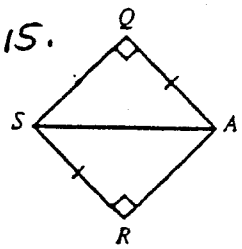
10. 

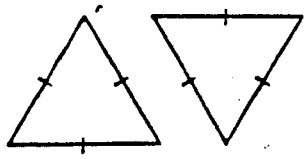
11. 

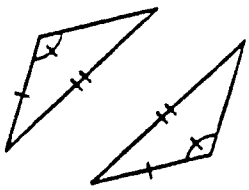
12. 

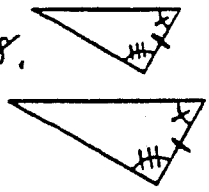
13. 

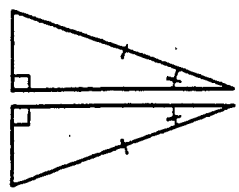
14. 

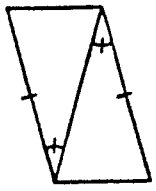
15. 

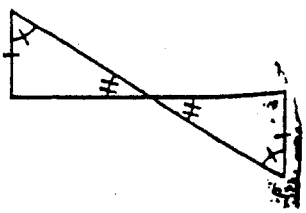
16. 

17. 

18. 

19. 

20. 

21. 

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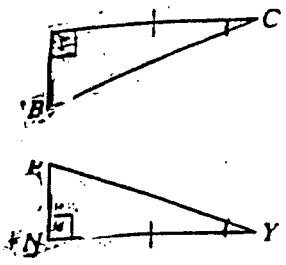

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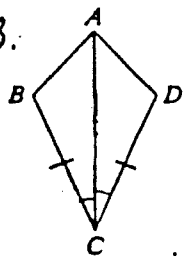

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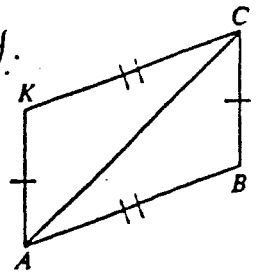

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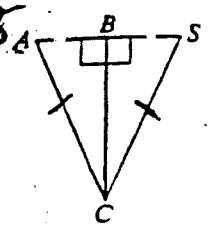

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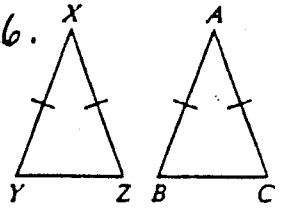

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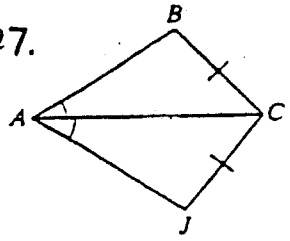

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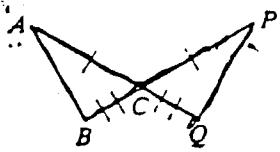

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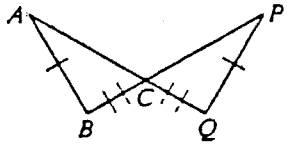

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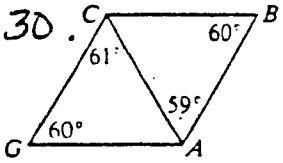

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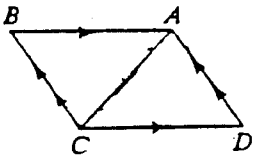

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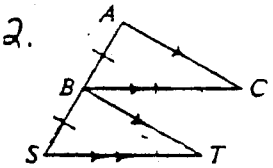

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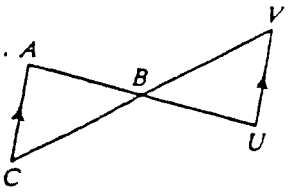

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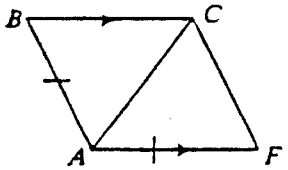

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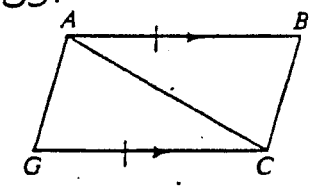

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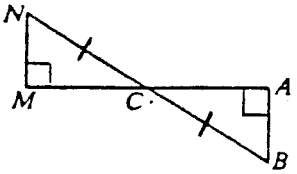

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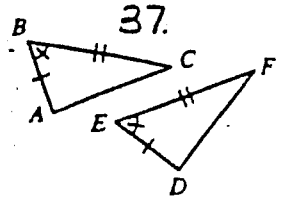

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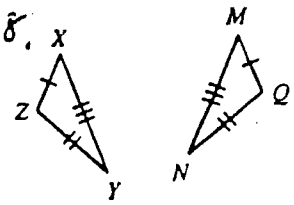

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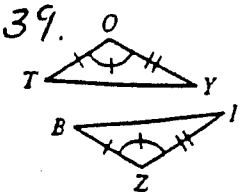

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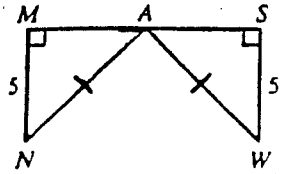

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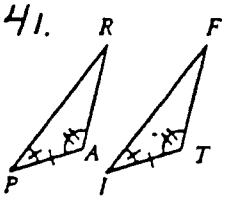

42.