Date _____

CHAPTER 4

Chapter Test C

For use after Chapter 4

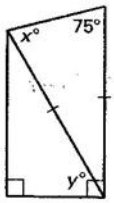
A triangle has the given vertices. Classify the triangle by its sides.

1. $A(1, 1), B(2, 4), C(3, 1)$

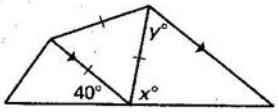
2. $W(1, 1), X(1, 4), Y(5, 4)$

Find the values of x and y.

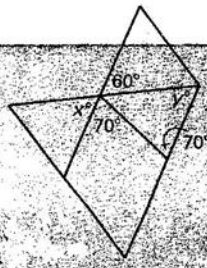
3.



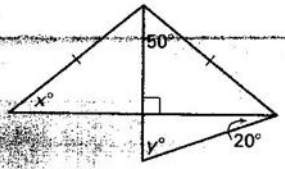
4.



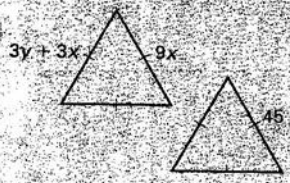
5.



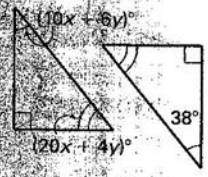
6.



7.

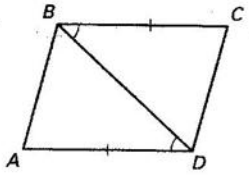


8.

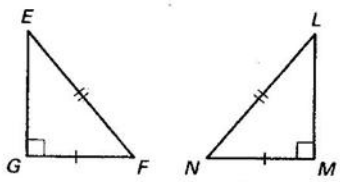


Is it possible to prove that the triangles are congruent? If so, state the postulate or theorem you would use.

9. $\triangle ABD \cong \triangle CDB$



10. $\triangle EFG \cong \triangle LNM$



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Name _____ Date _____

CHAPTER 4 **Chapter Test C** *continued*

For use after Chapter 4

Is it possible to prove $\triangle ABC \cong \triangle DEF$ using the given information? If so, state the postulate or theorem that you would use.

11. $\overline{AB} \cong \overline{DE}, \overline{AC} \cong \overline{DF}, \overline{BC} \cong \overline{EF}$

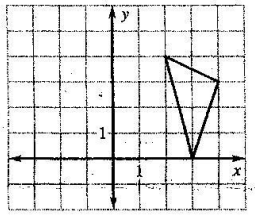
12. $\angle A \cong \angle D, \overline{AB} \cong \overline{DE}, \overline{BC} \cong \overline{EF}$

13. $\angle A \cong \angle D, \angle C \cong \angle F, \angle B \cong \angle E$

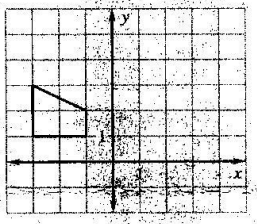
14. $\angle A \cong \angle D, \angle C \cong \angle F, \overline{BC} \cong \overline{EF}$

An image and the translation are given. Sketch the original figure.

15. $(x, y) \rightarrow (x + 5, y - 1)$

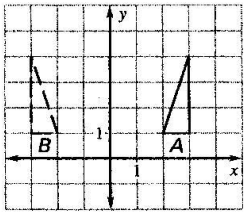


16. $(x, y) \rightarrow (x - 5, y + 2)$

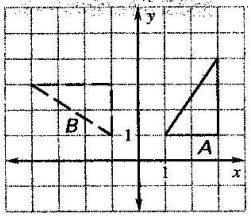


Is Figure A a rotation of Figure B? If so, give the angle and direction of rotation.

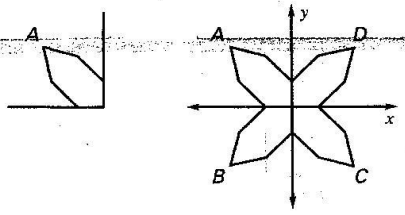
17.



18.



19. The stencil below on the left is used to create the design shown on the right. Describe how to reflect the stencil to move it from A to C.



Answers

11. _____

12. _____

13. _____

14. _____

15. See left.

16. See left.

17. _____

_____

18. _____

_____

19. _____

_____

_____