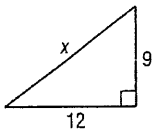
NAME _____ DATE _____ PERIOD _____ p.99

8-2 Skills Practice

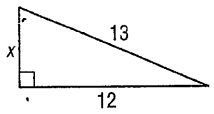
The Pythagorean Theorem and Its Converse

Find x.

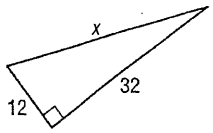
1.



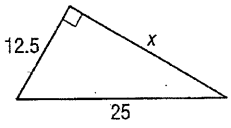
2.



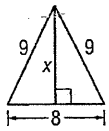
3.



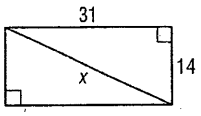
4.



5.

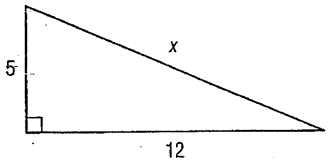


6.

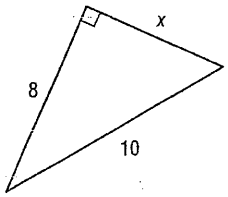


Use a Pythagorean Triple to find x.

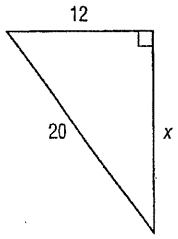
7.



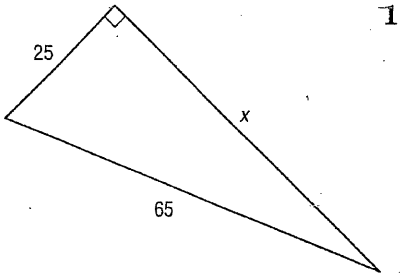
8.



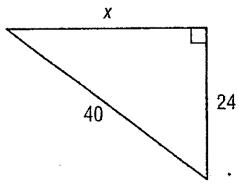
9.



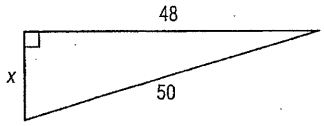
10.



11.



12.



Determine whether each set of numbers can be measure of the sides of a triangle. If so, classify the triangle as *acute, obtuse, or right*. Justify your answer.

13. 7, 24, 25

14. 8, 14, 20

15. 12.5, 13, 26

16. $3\sqrt{2}, \sqrt{7}, 4$

17. 20, 21, 29

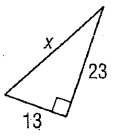
18. 32, 35, 70

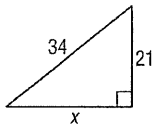
NAME _____ DATE _____ PERIOD _____ p. 100

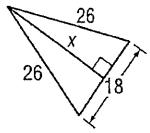
8-2 Practice

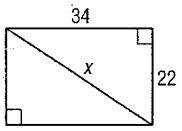
The Pythagorean Theorem and Its Converse

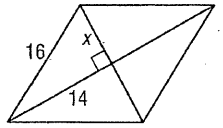
Find x.

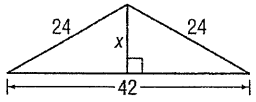
1. 

2. 

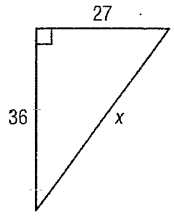
3. 

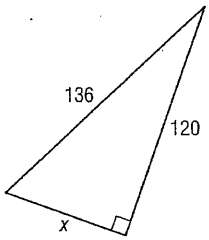
4. 

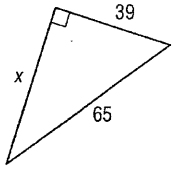
5. 

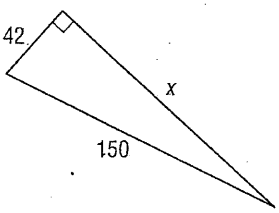
6. 

Use a Pythagorean Triple to find x.

7. 

8. 

9. 

10. 

Determine whether each set of numbers can be measure of the sides of a triangle. If so, classify the triangle as *acute, obtuse, or right*. Justify your answer.

11. 10, 11, 20

12. 12, 14, 49

13. $5\sqrt{2}$, 10, 11

14. 21.5, 24, 55.5

15. 30, 40, 50

16. 65, 72, 97

17. CONSTRUCTION The bottom end of a ramp at a warehouse is 10 feet from the base of the main dock and is 11 feet long. How high is the dock?