

11-4

Skills Practice

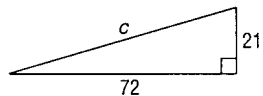
The Pythagorean Theorem

Look

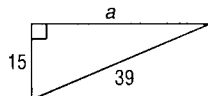
All work on loose leaf.

Find the length of each missing side. If necessary, round to the nearest hundredth.

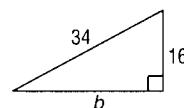
1.



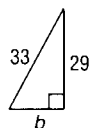
2.



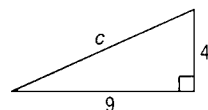
3.



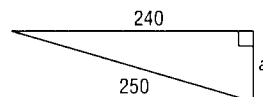
4.



5.



6.



If c is the measure of the hypotenuse of a right triangle, find each missing measure. If necessary, round to the nearest hundredth.

7. $a = 21, b = 28, c = ?$

8. $a = 6, c = 10, b = ?$

9. $a = 15, b = 36, c = ?$

10. $a = 16, c = 20, b = ?$

11. $a = 5, b = 12, c = ?$

12. $b = 6, c = 12, a = ?$

13. $a = 11, b = 4, c = ?$

14. $a = 8, b = 10, c = ?$

15. $a = 19, b = \sqrt{39}, c = ?$

16. $a = \sqrt{12}, b = 6, c = ?$

17. $c = \sqrt{130}, a = 7, b = ?$

18. $a = \sqrt{6}, b = \sqrt{19}, c = ?$

Determine whether the following side measures form right triangles. Justify your answer.

19. 7, 24, 25

20. 15, 30, 34

21. 16, 28, 32

22. 18, 24, 30

23. 15, 36, 39

24. 5, 7, $\sqrt{74}$