

## Practice

**Integration: Geometry**  
**The Pythagorean Theorem**

*If  $c$  is the measure of the hypotenuse of a right triangle, find each missing measure. Round answers to the nearest hundredth.*

1.  $a = 3, b = 4, c = \underline{\hspace{2cm}}$

2.  $a = 6, c = 10, b = \underline{\hspace{2cm}}$

3.  $b = 12, c = 13, a = \underline{\hspace{2cm}}$

4.  $a = 6, c = 12, b = \underline{\hspace{2cm}}$

5.  $a = 8, b = 6, c = \underline{\hspace{2cm}}$

6.  $a = 5, c = 13, b = \underline{\hspace{2cm}}$

7.  $b = 0.8, c = 1.0, a = \underline{\hspace{2cm}}$

8.  $a = 11, b = 4, c = \underline{\hspace{2cm}}$

9.  $a = \sqrt{12}, b = 6, c = \underline{\hspace{2cm}}$

10.  $b = 11, c = \sqrt{289}, a = \underline{\hspace{2cm}}$

11.  $a = 19, b = \sqrt{39}, c = \underline{\hspace{2cm}}$

12.  $a = \sqrt{6}, b = \sqrt{19}, c = \underline{\hspace{2cm}}$

**Determine whether the following side measures would form right triangles. Explain why or why not.**

13. 20, 21, 29

14. 15, 30, 34

15. 9,  $\sqrt{40}$ , 11

16. 21, 72, 75