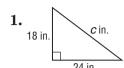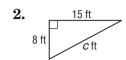## 9-4 Skills Practice
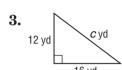
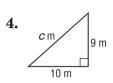### *The Pythagorean Theorem*

Find the length of the hypotenuse in each right triangle. Round to the nearest tenth, if necessary.
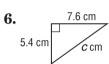
1.

18 in. c in.
24 in.

2.

15 ft
8 ft c ft

3.

12 yd c yd
16 yd

4.

c m 9 m
10 m

5.

c m 4.2 m
3.1 m

6.

7.6 cm
5.4 cm c cm

If c is the measure of the hypotenuse, find each missing measure. Round to the nearest tenth, if necessary.

7. $a = ?, b = 24, c = 26$

8. $a = 16, b = ?, c = 34$

9. $a = 24, b = ?, c = 40$

10. $a = 5, b = ?, c = 7$

11. $a = ?, b = 32, c = 39$

12. $a = 21, b = ?, c = 48$

13. $a = 18, b = 29, c = ?$

14. $a = ?, b = 36, c = 49$

15. $a = 8, b = ?, c = 12$

16. $a = 14, b = 21, c = ?$

17. $a = ?, b = 30, c = 40$

18. $a = 4, b = ?, c = 7$

19. $a = 13, b = 18, c = ?$

20. $a = ?, b = 55, c = 75$

The lengths of three sides of a triangle are given. Determine whether each triangle is a right triangle.

21. 14 m, 5 m, 4 m

22. 3 in., 4 in., 5 in.