6-6

Practice

The Pythagorean Theorem

If c is the measure of the hypotenuse, find each missing measure.
Round to the nearest tenth, if nesessary.
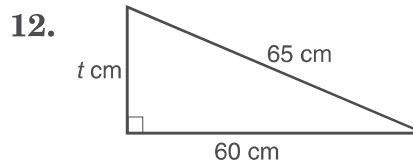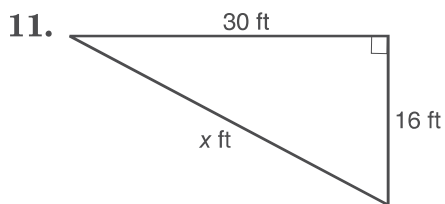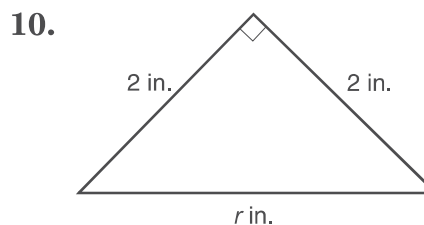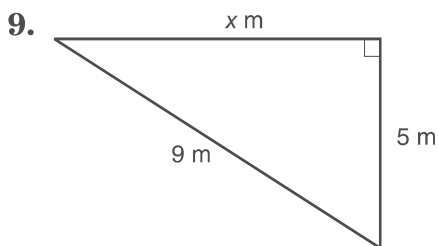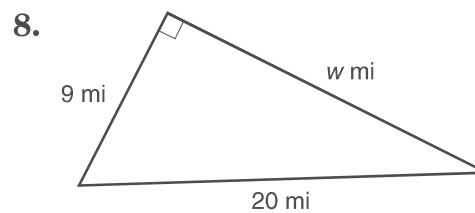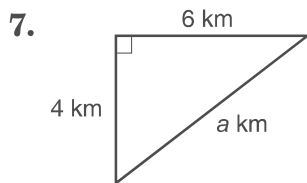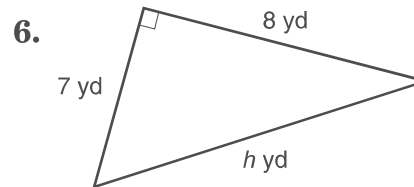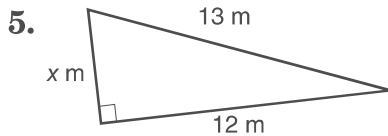
1. $a = 8, b = 13, c = ?$

2. $a = 4, c = 6, b = ?$

3. $a = \sqrt{13}, b = \sqrt{12}, c = ?$

4. $b = \sqrt{52}, c = \sqrt{101}, a = ?$

Find the missing measure in each right triangle. Round to the nearest tenth, if necessary.

5.

13 m

x m

12 m

6.

8 yd

7 yd

h yd

7.

6 km

4 km

a km

8.

9 mi

w mi

20 mi

9.

x m

9 m

5 m

10.

2 in.

2 in.

r in.

11.

30 ft

x ft

16 ft

12.

t cm

65 cm

60 cm

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

13. 14 ft, 48 ft, 50 ft

14. 50 yd, 75 yd, 85 yd

15. 15 cm, 36 cm, 39 cm

16. 45 mm, 60 mm, 80 mm