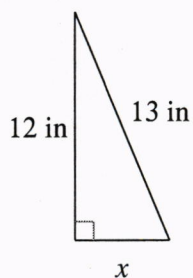


## The Pythagorean Theorem and Its Converse

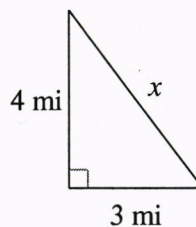
Date \_\_\_\_\_ Period \_\_\_\_\_

**Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.**

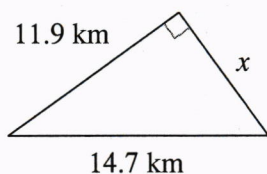
1)



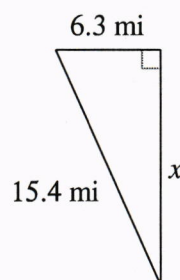
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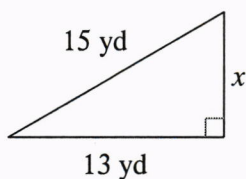
3)



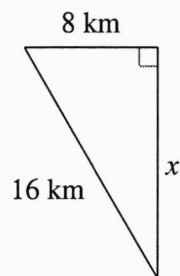
4)

**Find the missing side of each triangle. Leave your answers in simplest radical form.**

5)



6)

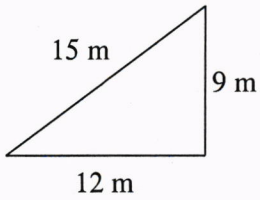
**Find the missing side of each right triangle. Side  $c$  is the hypotenuse. Sides  $a$  and  $b$  are the legs. Leave your answers in simplest radical form.**

7)  $a = 11$  m,  $c = 15$  m

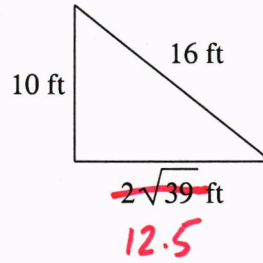
8)  $b = \sqrt{6}$  yd,  $c = 4$  yd

State if each triangle is a right triangle.

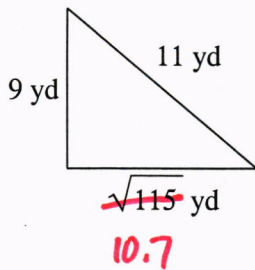
9)



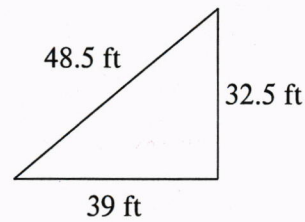
10)



11)



12)



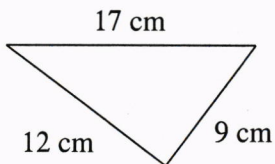
State if the three sides lengths form a right triangle.

13) 10 cm, 49.5 cm, 50.5 cm

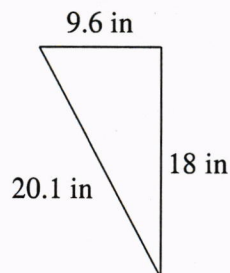
14) 9 in, 12 in, 15 in

State if each triangle is acute, obtuse, or right.

15)



16)



State if the three side lengths form an acute, obtuse, or right triangle.

17) 6 mi,  ~~$2\sqrt{55}$  mi~~, 17 mi

18) ~~4.8 km, 28.6 km, 29 km~~