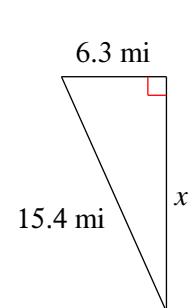
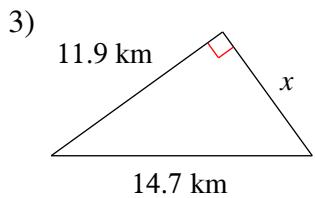
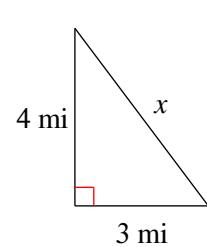
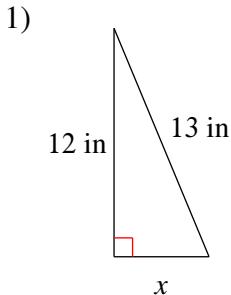
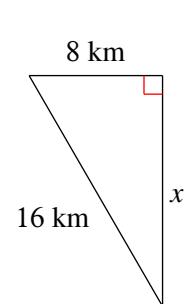
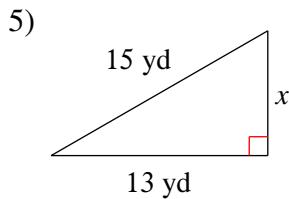


The Pythagorean Theorem and Its Converse

Date _____ Period ____

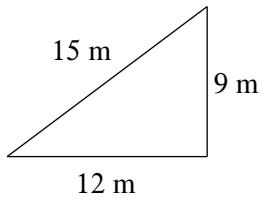
Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.**Find the missing side of each triangle. Leave your answers in simplest radical form.****Find the missing side of each right triangle. Side c is the hypotenuse. Sides a and b are the legs. Leave your answers in simplest radical form.**

7) $a = 11 \text{ m}$, $c = 15 \text{ m}$

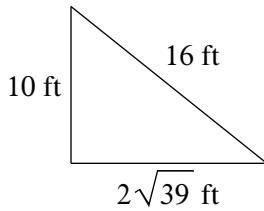
8) $b = \sqrt{6} \text{ yd}$, $c = 4 \text{ yd}$

State if each triangle is a right triangle.

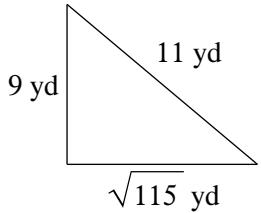
9)



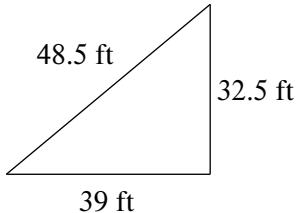
10)



11)



12)



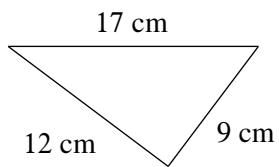
State if the three sides lengths form a right triangle.

13) 10 cm, 49.5 cm, 50.5 cm

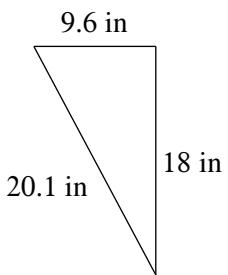
14) 9 in, 12 in, 15 in

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

15)



16)



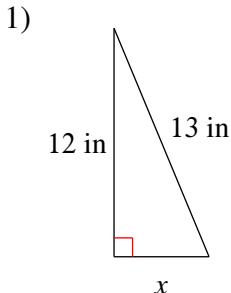
State if the three side lengths form an acute, obtuse, or right triangle.

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

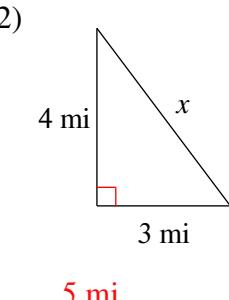
18) 4.8 km, 28.6 km, 29 km

The Pythagorean Theorem and Its Converse

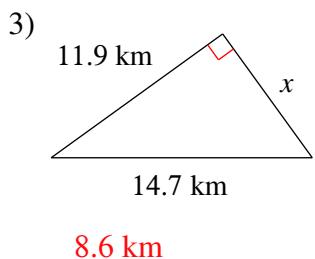
Date _____ Period ____

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

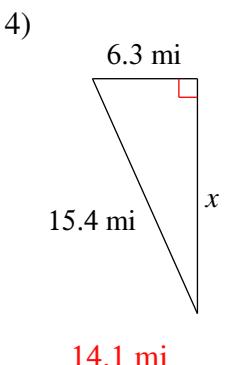
5 in



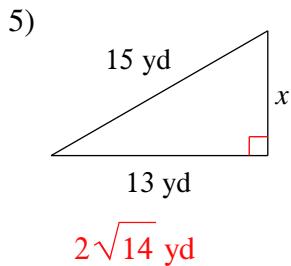
5 mi



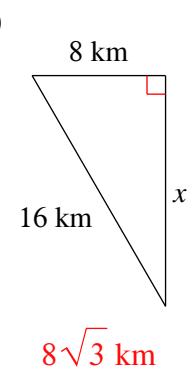
8.6 km



14.1 mi

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

2 $\sqrt{14}$ yd



8 $\sqrt{3}$ km

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) $a = 11 \text{ m}$, $c = 15 \text{ m}$

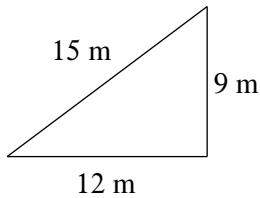
2 $\sqrt{26}$ m

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

$\sqrt{10}$ yd

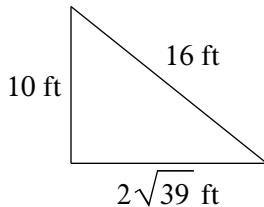
State if each triangle is a right triangle.

9)



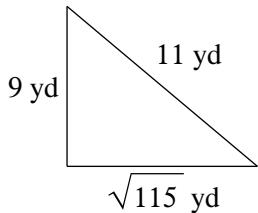
Yes

10)



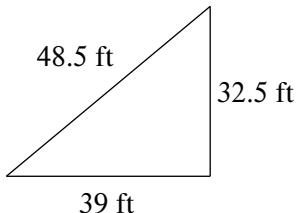
Yes

11)



No

12)



No

State if the three sides lengths form a right triangle.

13) 10 cm, 49.5 cm, 50.5 cm

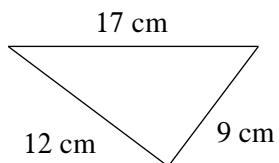
Yes

14) 9 in, 12 in, 15 in

Yes

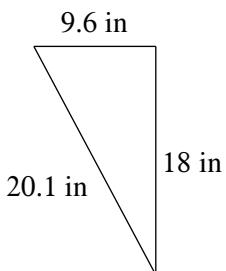
State if each triangle is acute, obtuse, or right.

15)



Obtuse

16)



Acute

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

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

Obtuse

18) 4.8 km, 28.6 km, 29 km

Right

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