Algebra I - Mr. Allen-Black   Name_____ ID: 1

The Pythagorean Theorem   Date_____ Period____

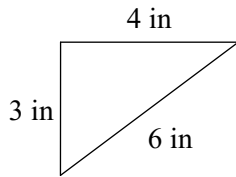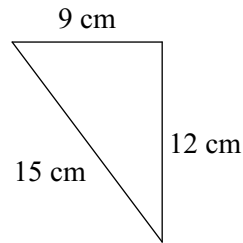**State if each triangle is a right triangle. Show your equation that helped you to decide.**

1)

4 in
3 in
6 in

2)

9 cm
12 cm
15 cm

3)

15 m
13 m
9 m

4)

3 yd
4 yd
5 yd

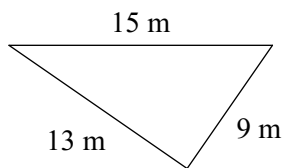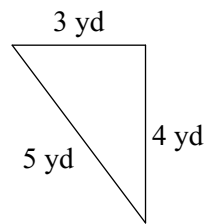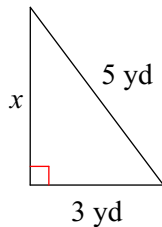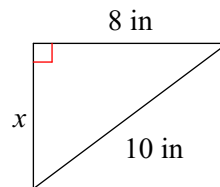**Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.**

5)

5 yd
x
3 yd

6)

8 in
x
10 in

7)

5 m
12 m
x

8)

9 mi
12 mi
x

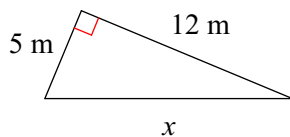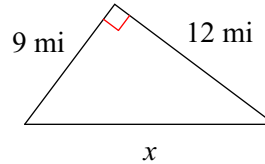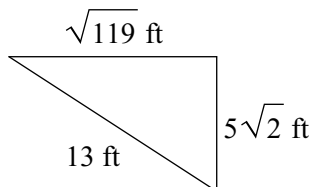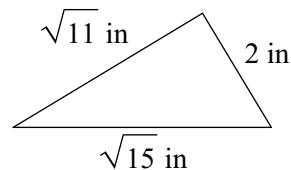**State if each triangle is a right triangle. Show your equation that helped you to decide.**

9)

$\sqrt{119}$ ft
$5\sqrt{2}$ ft
13 ft

10)

$\sqrt{11}$ in
2 in
$\sqrt{15}$ in

11)

√217 mi

10 mi   11 mi

12)

10 mi   7 mi

2√29 mi

13)

5 in   √29 in

7 in

14)

11 m

5 m   4√6 m
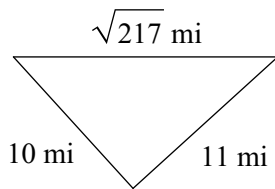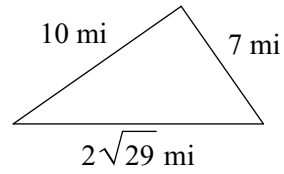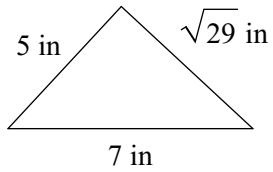
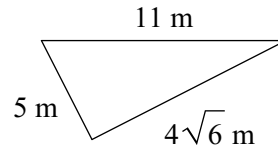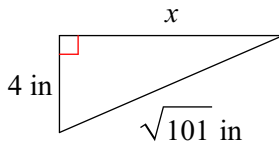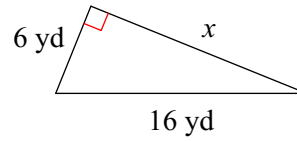**Find the missing side of each triangle. Leave your answers in simplest radical form.**

15)

x

4 in   √101 in

16)

6 yd   x

16 yd

17)

x

2√2 mi

2√3 mi

18)

8 km

x

4 km

19)

√10 km

√5 km   x

20)

7 yd

4 yd

x