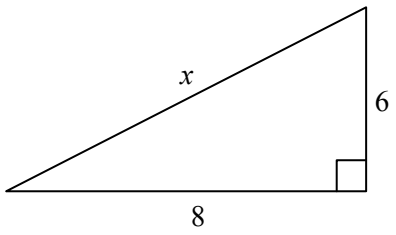
Geometry
Pythagorean Theorem and its Converse

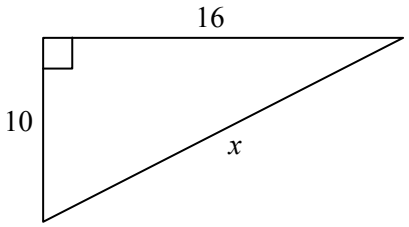
Name: _____
Date: _____

Find the value of *x*. Leave answer is simplest radical form.

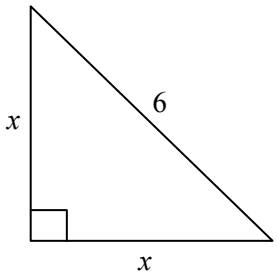
1)



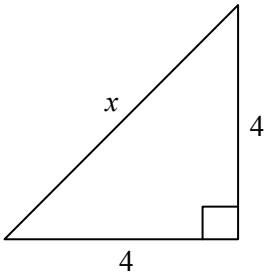
2)



3)



4)



The numbers represent the lengths of the sides of a triangle. Classify each triangle as *acute*, *obtuse*, or *right*.

5) 6, 9, 10

6) 12, 16, 20

7) 30, 34, 16

8) 2, 5, 6

9) $\sqrt{3}$, 2, 3

10) $\sqrt{7}, \sqrt{11}$, 4

Answer Key

1) 10
2) $2\sqrt{89}$
3) $3\sqrt{2}$
4) $4\sqrt{2}$
5) Acute
6) Right
7) Right
8) Obtuse
9) Obtuse
10) Acute