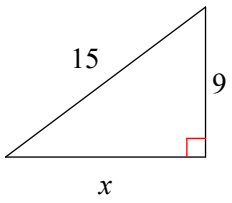
Algebra 1 - Mr. C. Name_____

Pythagorean Theorem Practice

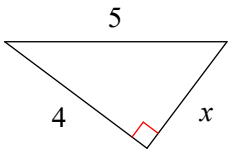
Date_____ Period____

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

1)

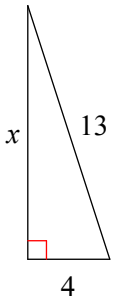


2)

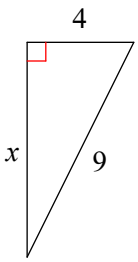


Find the missing side of each triangle. Leave your answers in simplest radical form.

3)



4)



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.

5) $a = 13,\ c = 14$

6) $a = 6,\ c = 15$

7) $a = 10,\ c = \sqrt{226}$

8) $a = 10,\ b = 12$

9) $a = 11,\ b = 5$

10) $a = 6,\ b = 4$

State if the three sides lengths form a right triangle.

11) $\sqrt{69},\ 10,\ 13$

12) $\sqrt{57},\ 8,\ 11$

13) $\sqrt{143},\ \sqrt{77},\ 15$

14) $\sqrt{95},\ 7,\ 16$

15) $6,\ \sqrt{134},\ 13$

16) $8,\ \sqrt{157},\ \sqrt{226}$

Answers to Pythagorean Theorem Practice (ID: 11)

1) 12
2) 3
3) $3\sqrt{17}$
4) $\sqrt{65}$
5) $3\sqrt{3}$
6) $3\sqrt{21}$
7) $3\sqrt{14}$
8) $2\sqrt{61}$
9) $\sqrt{146}$
10) $2\sqrt{13}$
11) Yes
12) Yes
13) No
14) No
15) No
16) No