Chapter 7: Right Triangles Lesson 7-2: Pythagorean Theorem Homework

name _____ date _____ period ____

Determine if the given measures are measures of the sides of a right triangle. If not, is the triangle is acute or obtuse?

1. 13, 5, 12 **2.** 37, 12, 34 **3.** 9, 21, 22

Draw a figure for each exercise. The length and width of a rectangle are given. Find the length of a diagonal.

4. 8 and 6 **5.** 0.8 and 0.6 **6.** 80 and 60 **7.** $\sqrt{3}$ and 1

The length of a diagonal of a square is given. find the length of a side of the square.

8. $\sqrt{2}$ **9.** 2 **10.** 20k

Find the value of x in each figure.



Find diagonal d of the rectangular box when $l,\,m,\,\text{and}\;n$ are equal to the following. (Hint: first find a)



15. 2, 5, 5 **16.** $\sqrt{5}$, $\sqrt{7}$, $\sqrt{6}$, **17.** e, e, e