Day 2 – 8.1 HW
p. 495 #2-12 evens, 19-23, 36
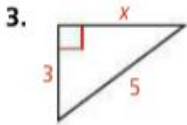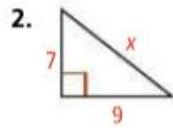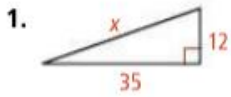
Do you know HOW?

What is the value of x in simplest radical form?

1.

2.

3.

4.
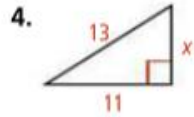
Do you UNDERSTAND?

5. Vocabulary Describe the conditions that a set of three numbers must meet in order to form a Pythagorean triple.

6. Error Analysis A triangle has side lengths 16, 34, and 30. Your friend says it is not a right triangle. Look at your friend's work and describe the error.

$$16^2 + 34^2 \stackrel{?}{=} 30^2$$
$$256 + 1156 \stackrel{?}{=} 900$$
$$1412 \neq 900$$

Practice and Problem-Solving Exercises

MATHEMATICAL PRACTICES

A Practice   **Algebra** Find the value of x.   See Problem 1.

7.

8.

9.

10.

11.

12.

19.

20.

21.
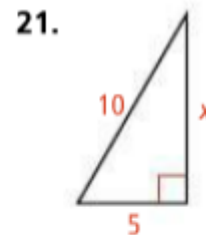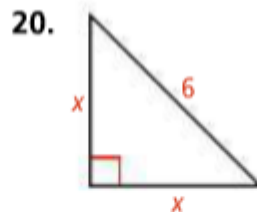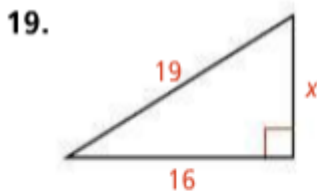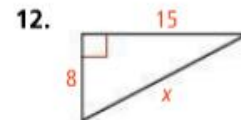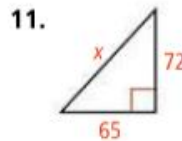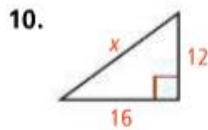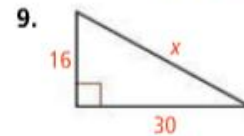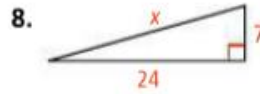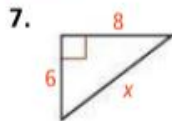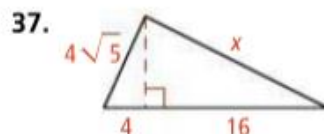

22. Home Maintenance A painter leans a 15-ft ladder against a house. The base of the ladder is 5 ft from the house. To the nearest tenth of a foot, how high on the house does the ladder reach?

23. A walkway forms one diagonal of a square playground. The walkway is 24 m long. To the nearest meter, how long is a side of the playground?

Algebra Find the value of x. If your answer is not an integer, express it in simplest radical form.

36.

37.

38.