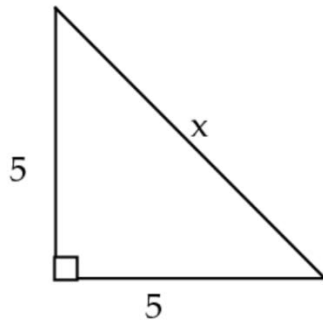


Section 12.6 Worksheet

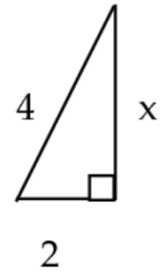
Name: _____

Find the unknown lengths of the right triangle.

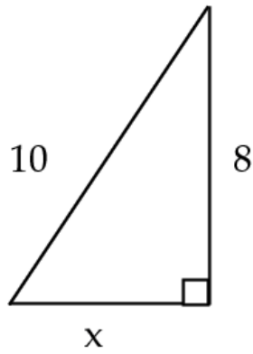
1.)



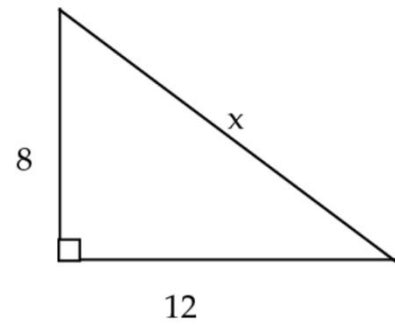
2.)



3.)



4.)



Let a and b represent the lengths of the legs of a right triangle and let c represent the length of the hypotenuse. Find the unknown length.

5.) $a = 6, b = 30$

6.) $a = 15, c = 25$

7.) $b = 3, c = 5$

8.) $a = 2, b = 8$

Determine whether the given lengths are sides of a right triangle.

9.) 8, 16, 18

10.) 11, 60, 61

11.) 9, 15, 20

REVIEW:

Solve the equation. Check for extraneous solutions.

12.) $\sqrt{3x - 12} = \sqrt{5x - 26}$

13.) $3\sqrt{4x + 1} - 2 = 25$

Simplify the expression.

14.) $\sqrt{98}$

15.) $\sqrt{63}$

16.) $\sqrt{\frac{3}{5}}$