Name_____ Date_____

7.1-7.3 – Review

Find the square root(s).

1) $\sqrt{121}$

2) $-\sqrt{\frac{1}{36}}$

3) $\pm\sqrt{\frac{289}{49}}$

4) $-\sqrt{0.64}$

Find the two square roots of the number.

5) 16

6) 169

Complete the statement with **<, >, or =.**

7) $\sqrt{64}$? 5

8) 0.6 ? $\sqrt{0.49}$

Evaluate the expression. Show all work

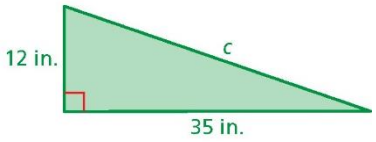
9) $2\sqrt{25} + 3$

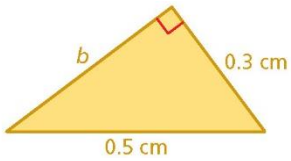
10) $7 - 12\sqrt{\frac{1}{9}}$

11) $15 - 4\sqrt{36}$

12) $10\left(\sqrt{81} - 12\right)$

Find the missing length of the triangle. Show all work.

13) 

14) 

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. If you cannot find the perfect root, leave the answers in radical form.

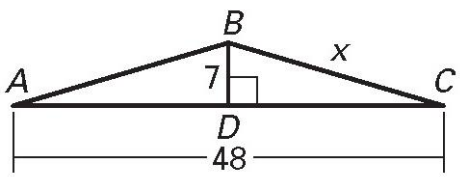
15) $a=12,\ b=15$

16) $b=9,\ c=12$

17) $a=14,\ c=50$

18) $b=45,\ c=51$

19) Given that *D* is the midpoint of segment *AC*, find the unknown length. Show all work.



20) **Indirect Measurement** You are trying to determine the distance across a pond. You put posts into the ground at A, B, and C so that angle B is a right angle. You measure and find that the length of AB is 18 feet and the length of CB is 28 feet. How wide is the pond from A to C? Round your answer to the nearest foot.