Pythagorean Theorem Worksheet

In any right triangle, the sum of the squares of the two shorter sides is equal to the square of the longer side.

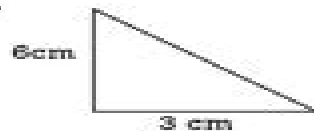| Remember	
$c^2 = a^2 + b^2$	$a^2 = c^2 - b^2$

$$a^2 + b^2 = c^2$$

Find the length of the missing side in the following examples. Round answers to the nearest tenth, if necessary. **Please do and show all work on a separate piece of loose leaf!**
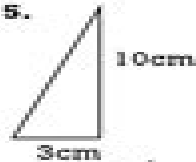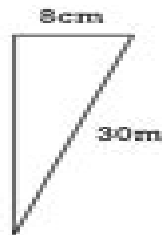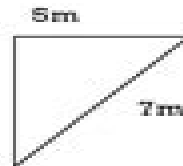
1.
6cm
3 cm

2.
5 cm
12 cm

3.
2 m
5m

4.
5.2 m
2.4 m

5.
10cm
3cm

6.
8cm
30m

7.
5m
7m

8.
15cm
10 cm

9. 8cm
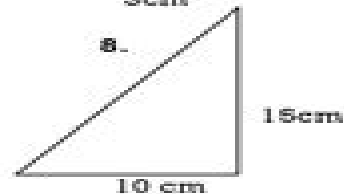25 cm
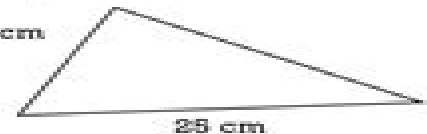
What is the length of the missing side for the following right angle triangles? **Show all work on a separate piece of loose leaf!**

10.   a = 3 ; b = 4 ; c = ?

11.   a = 6 ; b = ? ; c = 16 ;

12.   a = 4 ; b = 2 ; c = ?

13.   a = ? ; b = 3.5 ; c = 4.2

14.   A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder? **Please draw a diagram and show all work**.

Lesson 5 7 Practice The Pythagorean Theorem

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one practice worksheet for each lesson in the student edition **Teaching Secondary and Middle School Mathematics** Daniel J. Brahier,2016-02-12 Teaching Secondary and Middle School Mathematics combines the latest developments in research standards and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today In the fully revised fifth edition scholar and mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research based best practices as they define and sharpen their own personal teaching styles The fifth edition has been updated and expanded with a particular emphasis on the continued impact of the Common Core State Standards for Mathematics and NCTM s just released Principles to Actions as well as increased attention to teaching with technology classroom management and differentiated instruction Features include A full new Chapter 7 on selection and use of specific tools and technology combined with Spotlight on Technology features throughout clearly illustrate the practical aspects of how technology can be used for teaching or professional development Foundational Chapters 1 and 2 on the practices and principles of mathematics education have been revised to build directly on Common Core State Standards for Mathematics and Principles to Actions with additional references to both documents throughout all chapters A new Chapter 4 focuses on the use of standards in writing objectives and organizing lesson plan resources while an updated Chapter 5 details each step of the lesson planning process A fully revised Chapter 12 provides new information on teaching diverse populations and outlines specific details and suggestions for classroom management for mathematics teachers Classroom Dialogues features draws on the author s 35 year experience as an educator to present real world teacher student conversations about specific mathematical problems or ideas How Would You React features prepares future teachers for real life scenarios by engaging them in common classroom situations and offering tried and true solutions With more than 60 practical classroom tested teaching ideas sample lesson and activities Teaching Secondary and Middle School Mathematics combines the best of theory and practice to provide clear descriptions of what it takes to be an effective teacher of mathematics **Cliffsnotes TExES Math 4-8 (115) and Math 7-12 (235)** Sandra Luna McCune,2020-09-15 Preparation and instruction book providing test taking strategies and reviews of all test topics Includes two practice tests for both the TExES Math 4 8 115 and Math 7 12 235 exams including answers and complete explanations *McGraw-Hill's 12 SAT Practice Tests with PSAT, 2ed* Christopher Black,Mark Anestis,2008-06-24 We want to give you the practice you need on the SAT McGraw Hill s 12 SAT Practice Tests with PSAT provides the intensive test taking practice that can help you sharpen your skills boost your confidence and reduce your stress Take these practice tests created by two of America s most experienced and respected test prep coaches and you ll learn what kinds of questions are on the SAT how the test is structured and how to budget your time in each test section Watch your scores improve from one practice test to the next and get ready to do your very best on the real exam Inside you ll find 12 complete sample SAT exams with full explanations for every answer plus a complete sample PSAT exam Through coverage

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Lesson 5 7 Practice The Pythagorean Theorem Book Review: Unveiling the Magic of Language

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