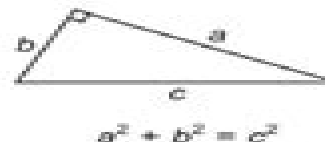


## Pythagorean Theorem Worksheet

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

$c^2 = a^2 + b^2$	<b>Remember</b>	$a^2 = c^2 - b^2$
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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.



2.



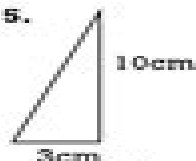
3.



4.



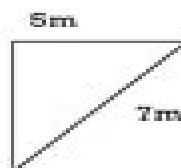
5.



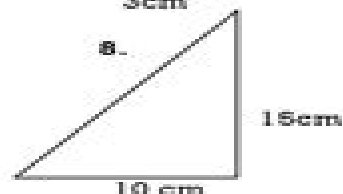
6.



7.



8.



9. 8 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.  $a = 3$ ;  $b = 4$ ;  $c = ?$

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

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

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 The Pythagorean Theorem Worksheet

**Ryan L Schaaf, Becky Zayas, Ian Jukes**



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*New York Math: Math A*, 2000      **Mathematics** GLENCOE, 1995      Hands-On Algebra! Frances McBroom Thompson, Ed.D., 1998-06-08 Lay a solid foundation of algebra proficiency with over 155 hands on games and activities To complement the natural process of learning each activity builds on the previous one from concrete to pictorial to abstract Dr Thompson's unique three step approach encourages students to first recognize patterns then use diagrams tables and graphs to illustrate algebraic concepts and finally apply what they've learned through cooperative games puzzles problems and activities using a graphic calculator and computer You'll find each activity has complete teacher directions lists of materials needed and helpful examples for discussion homework and quizzes Most activities include time saving reproducible worksheets for use with individual students small groups or the entire class This ready to use resource contains materials sufficient for a two semester course in Algebra I and can be adapted for advanced students as well as students with dyslexia      Differentiated Instruction for the Middle School Math Teacher Karen E. D'Amico, Kate Gallaway, 2008-01-02 Differentiated Instruction for the Middle School Math Teacher is a practical and easy to use resource for teaching a standards based math curriculum to all learners It gives you effective ways to present math concepts shows how to provide opportunities for guided practice and offers ideas for modifying the material to provide access to the same content standard for all students in the inclusive classroom This book also contains key strategies for collaborating with other professionals suggestions for involving the students families by tying math concepts to students everyday lives and valuable assessment strategies The lessons in the book cover middle school math topics correlated to the standards of the National Council of Teachers of Math ranging from numbers and operations to problem solving and reasoning Each lesson includes Instructions for presenting the lesson to the whole class Worksheets designed to help review and reinforce the concepts presented in each lesson A section on how to adapt the lesson for the inclusive classroom including descriptions of different stations for different learners A home school connection with family based everyday math activities Suggestions for how to assess students grasp of the concepts presented in the lesson      **Merrill Geometry** MERRILL, 1994-05      Numeracy Support Pack 9-2 Wendy Fortescue Hubbard, 2002 This series of resources provides comprehensive support for the Framework for Teaching Mathematics for Year 9 with particular emphasis on a three part mathematics lesson The materials are fully linked to Key Maths and address the beginning and end of the typical lesson structure outlined in the Framework The activities within the packs provide a variety of presentational models including opportunities for interactive oral work direct teaching and paired or group activity work to encourage pupils to engage in mathematical conversation The packs allow teachers to build resources such as number cards and fans A wide range of data sets graphs tables and examples are included for photocopying or use on an OHP      **Scott, Foresman Geometry: Computer materials**, 1990      **Addison-Wesley Informal Geometry**, 1992      Glencoe Algebra 1, 2001      *McGraw-Hill's SAT, 2010 Edition* Christopher Black, Mark Anestis, 2009-06-05 We want to

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*The Focus Factor* James A. Bellanca, 2015-04-25 Featuring practical how to classroom examples this teacher friendly introduction examines the importance of an essential set of thinking skills that supports the Common Core State Standards and future success for students in 21st century life school and work Starting with cognitive psychologist Reuven Feuersteins pioneering Theory of Mediated Learning the author provides a rationale for teaching skills that focuses on deeper learning and connects to CCSSs These include distinguishing what is important from what is not thinking critically and creatively sorting and searching information connecting ideas and problem solving Each chapter introduces the what the why and the how to do it for explicit intentional incorporation of specific content crossing competencies The text is designed to make it easy for teachers to integrate the development of important cognitive functions into their daily lessons

**Merrill Advanced Mathematical Concepts**, 199? **Handbook for the First Year Teacher** Maria J. Vlahos, Heidi K. Hughes, 1997 **School Library Journal**, 1998 **Current Index to Journals in Education**, 1996 **Software for Schools**, 1987 *Curriculum Review*, 1977

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