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The Pythagorean
Theorem Answers

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**[DOC] Reteaching 10
2 The Pythagorean
Theorem Answers**

Reteaching 10-1 You
can use the
Pythagorean Theorem
to find the length of
the third side of a right
triangle if you ... Solve
a² Write the
Pythagorean

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Reteaching 10 2
The Pythagorean
Theorem

Theorem. $a^2 + b^2 = c^2$
+ 18 220 Substitute
12, 18, and 20 for a, b,
and c. Make sure to
substitute the longest
length for c, the
hypotenuse.

0002 hsm11a1 te
1001tr - Math Men

Step 2: Plug in the
values $10^2 = 9^2 + b^2$
 $100 = 81 + b^2$ Step
3: Subtract 81 from
both sides $19 = b^2$ b
 $= \sqrt{19}$ $b \approx 4.36$.

Answer: The length of

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the side is 4.36 inches.

How to use the Pythagorean Theorem to solve real-world problems? Examples:
1. Claire wants to hang a banner from the sill of a second-story window in her house.

Pythagorean Theorem (solutions, examples, answers

...

Class. Date

Reteaching. 10-2.

Areas of Trapezoids,

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Rhombuses, and Kites
The area of a trapezoid is $h(b_1 + b_2)$, where h is the length of the height and b_1 and b_2 are the lengths of the two parallel bases.

0012_hsm11gmtr_10 02.indd - Geometry Homepage

Reteaching Special
Right Triangles In a
450-450-900 triangle,
the legs are the same
length. hypotenuse =
Problem What is the

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Theorem Answers

value of the variable,
s? Class Date 10 2 In a
450-450-900 triangle,
the hypotenuse is
times the length of the
leg. Divide both sides
by $\sqrt{2}$. Rationalize the
denominator. — x
hypotenuse.

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10-1: The Pythagorean
Theorem. Video 10-1.
Packet 10-1. Reteach
10-1. Reteach 10-1
ans. ... Sample MQ
10-1. Sample MQ 10-1

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The Pythagorean
ans 10-2: Simplifying
Radicals. Video 10-2.
Packet 10-2. Reteach
10-2. Reteach 10-2
ans. 10-2 Practice B.
10-2 Practice B ans.
Sample MQ 10-2.
Sample MQ 10-2 ans.
10-3: Operations with
Radical Expressions.
Video ...

**Chapter 10: Radical
Expressions and
Equations - Math
Men**

Show how $a^2 + b^2 =$

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c^2 ; in this case, $3^2 + 4^2 = 5^2$. Repeat with another example, such as a right triangle with sides of 5 meters, 12 meters, and 13 meters, where $5^2 + 12^2 = 13^2$. Step 4: Indicate that the Pythagorean Theorem can be used to find the missing side length of a right triangle when the other two side lengths are known.

Applying the
Page 11/26

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The Pythagorean
Theorem Answers
**Pythagorean
Theorem on a
Coordinate Plane ...**

$$(10)^2 =? (8)^2 + (6)^2$$

$$100 =? 64 + 36 \quad 100 =$$

100. Apply the

converse of

Pythagorean Theorem.

Since the square of the

length of the longest

side is the sum of the

squares of the other

two sides, by the

converse of the

Pythagorean Theorem,

the triangle is a right

triangle. A corollary to

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the theorem
The Pythagorean
categorizes triangles in
to acute, right, or ...

**The Converse of
Pythagorean
Theorem - Varsity
Tutors**

2:11:46 John Conway:
Surreal Numbers - How
playing games led to
more numbers than
anybody ever thought
of - Duration: 1:15:45.
itsallaboutmath
Recommended for you

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 The Pythagorean
**8-1: The
 Pythagorean
 Theorem and Its
 Converse**

$$y = -3(x + 4)^2 + 1$$

Reteaching (continued)

Standard Form of a

Quadratic Function $y =$

$$(x - 1)^2 - 4 \quad y = (x - 2)^2$$

$$- 10 \quad y = (x + 3)^2 - 49$$

$$4 \quad y = (x - 9)^2 - 81$$

$$4 \quad y = (x + 1)^2 - 14$$

$$y = (x + 5)^2 - 9$$

$$4 \quad y = 4(x + 1)^2 - 7$$

$$y = 3 + 4(x + 6)^2 - 27$$

$$y = 2(x - 1)^2 - 3$$

$$y = x^2 - 6x + 10$$

$$y = 2x^2 - 4x + 1 \quad y \dots$$

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Holt Geometry Lesson
5-7 Reteach The
Pythagorean Theorem
Answers. $a^2 + b^2 = c^2$
Pythagorean Theorem
 $a^2 + b^2 = c^2$ $x^2 + 6^2 = 9^2$
Substitute. $x^2 + 4^2 = (x$
 $2)^2$ $x^2 + 36 = 81$ Take the
squares. $x^2 + 16 = 4x$
 $4x + 4 = 45$ Simplify. $4x + 12$
 $x + 4 = 3$ $x = 3 - 5$ Find the
value of x .

Holt Geometry
Lesson 5.7 Reteach
Page 15/26

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**The Pythagorean
Theorem ...** Answers

Lesson 30:

Trigonometry and the
Pythagorean Theorem
Classwork Exercises

1-2 1. In a right triangle, with acute angle of measure θ , $\sin \theta = \frac{1}{2}$. What is the value of $\cos \theta$? Draw a diagram as part of your response. 2. In a right triangle, with acute angle of measure θ , $\sin \theta = \frac{7}{9}$. What is the value of $\tan \theta$? Draw a

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diagram as part of

Lesson 30:
Trigonometry and
the Pythagorean
Theorem

Name Class Date

Reteaching 10-6

Volumes of Pyramids
and Cones Example

Calculate the volume
of the cone. Find the
height of the cone. 132

$= h^2 + 52$ Use the
Pythagorean Theorem.

$169 = h^2 + 25$

Substitute, $h^2 = 144$

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Simplify. $h = 12$ Take the square root of each side. Find the volume of the cone. $V = \frac{1}{3}pr^2h$ Use the formula for the volume of a cone. $= \frac{1}{3}p(5)^2 \cdot 12$ Substitute. $= 100p$ Simplify.

Reteaching 10-6 **Volumes of Pyramids** **and Cones**

OBJECTIVE ...

Reteaching (continued)

Date 10-4 Perimeters
and Areas of Similar
Figures The figures in

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The Pythagorean
Theorem Answers

each pair are similar.

The area of one figure is given. Find the area of the other figure to the nearest whole number.

4 in. 12m 78 in. 2 112 m 2 Area of smaller rectangle = 8 ft Area of smaller pentagon = Cm 2 cm 5 cm Area of larger triangle = 75 cm

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Pythagorean Theorem
 $a^2 + b^2 = c^2$ If you know the lengths of two

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sides of a right triangle, you can find the length of the third side. Find the length of

a. $a^2 + b^2 = c^2$ $a^2 = 12^2 + 13^2$
 $a^2 = 144 + 169$ $a^2 = 313$ $a = \sqrt{313}$

$a^2 + 25 = a^2 + 5^2$ If $a^2 + b^2 = c^2$, then the triangle is a right triangle. Is this triangle a right triangle? $3^2 + 4^2 = 9 + 16 = 25 = 5^2$ Yes, the triangle is a right triangle.

Reteaching 8-6 The Pythagorean Theorem

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The Pythagorean Theorem Answers

Lesson 6 Reteach Use
The Pythagorean
Theorem. Lesson 6
Reteach Use The
Pythagorean Theorem -
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Lesson 6 Reteach
Use The
Pythagorean
Theorem
Worksheets ...

This equation works like magic and can be used to find any missing value. Following is an example that uses the

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Pythagorean Theorem
to solve a triangle.

$$a^2 + b^2 = c^2. \quad 6^2 + 8^2 = c^2.$$

$$36 + 64 = c^2. \quad 100 = c^2.$$

$$c^2 = 100. \quad c = \sqrt{100}. \quad c = 10.$$

In this equation, the
longest side of the
triangle 'c' is missing.

**48 Pythagorean
Theorem Worksheet
with Answers [Word
+ PDF]**

Example 2 Refer to the
figure in Example 1.

Find $m\angle 2$ if $m\angle 8$

58° . Since $\angle 2$ and $\angle 8$

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are alternate exterior
angles, $m\angle 2 = 58^\circ$

Exercises In the figure
at the right, line m and
line n are parallel. 13
78 4109 5 6 2 N O Q R

If $m\angle 3 = 64^\circ$, find
each given angle
measure. Justify each
answer. 1. $m\angle 8$ 2.
 $m\angle 10$ 3. $m\angle 4$ 4. $m\angle 6$
Lesson 1 ...

NAME DATE PERIOD

Lesson 1 Reteach

Reteaching Page 2-10

Solving Inequalities by

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Multiplying or Dividing
File. Equations and
Inequalities Test
Review File.

Reteaching 2-8 Solving
Two-Step Inequalities
File. ... Skip

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