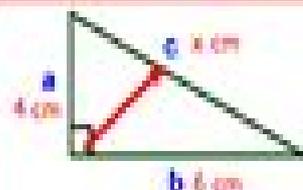


Knowledge Organiser: Pythagoras' Theorem and Trigonometry

What you need to know:

Pythagoras' Theorem - Hypotenuse

You should always label the hypotenuse first. This is the side facing the right angle.



This is surd form. Sometimes you will be asked to leave your answer like this.

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

1) Substitute your values into the formulae:

$$4^2 + 6^2 = x^2$$

2) Work out the values that you can.

$$16 + 36 = x^2$$

$$52 = x^2$$

3) Now use inverse operations to isolate x.

$$52 = x^2$$

$$\sqrt{\quad} \sqrt{\quad}$$

$$\sqrt{52} = x$$

$$x = \sqrt{52} \text{ (leave as } \sqrt{\quad} \text{ or } \sqrt{52} \text{ or } 2\sqrt{13})$$

Pythagoras' Theorem - Shorter Sides

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

Sometimes you are asked to calculate the shorter sides, see below.

1) Substitute your values into the formulae:

$$12^2 + a^2 = 13^2$$

2) Work out the values that you can.

$$144 + a^2 = 169$$

3) Now use inverse operations to isolate a.

$$144 + a^2 = 169$$

$$-144 \quad -144$$

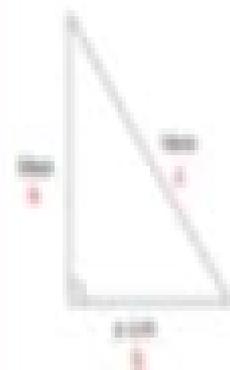
$$a^2 = 25$$

$$\sqrt{\quad} \sqrt{\quad}$$

$$\sqrt{25} = a$$

$$a = \sqrt{25} \text{ (leave as } \sqrt{\quad} \text{ or } 5 \text{ or } 5 \text{ or } -5)$$

You need to give the numbers in the side. Do a quick check. Is it really the answer?



Key Terms:

Hypotenuse: The longest side in a right angled triangle.

Opposite: The side facing the angle in a right angled triangle.

Adjacent: The side next to the angle given in a right angled triangle.

Square number: The result when you multiply a number by itself.

Inverse operation: The operation that reverses the effect of another operation.

Sin, Cos, Tangent

Trigonometric ratios, relating to buttons on the calculator

The distance between two points

Find the distance between (2, 1) and (4, 3)

Sketch coordinates on an axis.

Draw a right-angled triangle.

Work the lengths of the straight sides.

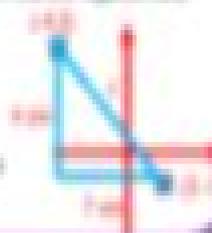
Use Pythagoras to find the hypotenuse.

$$4 - 2 = 2$$

$$3 - 1 = 2$$

$$2^2 + 2^2 =$$

$$4 + 4 = 8$$



You need to be able to:

- Identify the hypotenuse in a right angled triangle.

- Use Pythagoras' theorem to find the hypotenuse and shorter sides.

- Use Pythagoras' theorem to solve 3D problems.

- Use trigonometry to find lengths and angles in right angled triangles.

- Use right angled trigonometry to solve 3D problems.

- Recall exact trigonometric values.

Relevant maths topics

Pythagoras' Theorem 10-100-100

Pythagoras' Theorem 100-100-100

Trigonometry 10-100-100

Exact trig values 100-100-100

Trigonometry 10-100-100



Facing Math The Pythagorean Theorem

Y Pai



Facing Math The Pythagorean Theorem:

The Pythagorean Theorem Merle A. Barlow, 2016-02-05 Pythagoras a famous Greek scholar mathematician and philosopher formulated a proof for a theorem that is named for him the Pythagorean theorem This theorem states that in any right triangle the square of the hypotenuse is equal to the sum of the squares of the other two sides The Pythagorean theorem for right angled triangles likely was known long before the time of Pythagoras It was probably used by the ancient Egyptians to construct the pyramids The theorem is quite believable without rigorous proof to anyone willing to expend a modest effort in some experimentation One method is to draw a number of right angled triangles in as wide a variety as practicable and measure all of the sides It will be determined that for each triangle drawn the square of the length of the side opposite the right angle is about equal to the sum of the lengths of the squares of the other two sides Another method requires the availability of a balance For this more interesting experiment construct a right angled triangle and a square on each side using a piece of sheet metal or cardboard Then cut out the three squares and weigh them on the balance The square on the hypotenuse should balance the other two Contained within this book are some rigorous proofs and some interesting perspectives regarding right angles and right angled triangles Doubtless this theorem is one of the most useful concepts in mathematics

The Pythagorean Theorem Workbook Maria Miller, 2017-01-10 This is a relatively short workbook focusing on the Pythagorean Theorem and its applications The Pythagorean Theorem is actually not part of the Common Core Standards for seventh grade The Common Core places it in eighth grade However I have included it in this curriculum because it is a traditional topic in pre algebra That way Math Mammoth Grade 7 works as a full pre algebra curriculum while fully meeting and exceeding the Common Core Standards for grade 7 First students need to become familiar with square roots so they can solve the equations that result from applying the Pythagorean Theorem The first lesson of the workbook introduces taking a square root as the opposite operation to squaring a number The lesson includes both applying a guess and check method and using a calculator to find the square root of a number Next students learn how to solve simple equations that include taking a square root This makes them fully ready to study the Pythagorean Theorem and apply it The Pythagorean Theorem is introduced in the lesson by that name Students learn to verify that a triangle is a right triangle by checking if it fulfills the Pythagorean Theorem They apply their knowledge about square roots and solving equations to solve for an unknown side in a right triangle when two of the sides are given Next students solve a variety of geometric and real life problems that require the Pythagorean Theorem This theorem is extremely important in many practical situations Students should show their work for these word problems to include the equation that results from applying the Pythagorean Theorem to the problem and its solution There are literally hundreds of proofs for the Pythagorean Theorem In this workbook we present one easy proof based on geometry not algebra As an exercise students are asked to supply the steps of reasoning to another geometric proof of the theorem and for those interested the lesson also provides an

Internet link that has even more proofs of this theorem [Looking for Pythagoras](#) ,2004 Contains a complete eighth grade mathematics curriculum with connections to other subject areas **Pythagorean Theorem** Alfred S. Posamentier,2010-06-22 among the numbers of a Pythagorean triple will truly amaze the reader Posamentier next turns to Pythagorean means the arithmetic geometric and harmonic means Outlining Pythagoras s contributions to the methods used for measuring and comparing quantities in a variety of ways gives the reader a true appreciation for these valuable mathematical concepts Finally the last two chapters take a some what different approach to the topic and view the Pythagorean Theorem from an artistic point of view The author shows how Pythagoras s work manifests itself in music and how the Pythagorean Theorem has influenced fractals including the founding of a new class of fractals called Pythagorean trees Posamentier s lucid presentation and gift for conveying the significance of this key equation to those with little math background will inform entertain and inspire the reader once again demonstrating the power and beauty of mathematics

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