

8 2 Practice The Pythagorean Theorem

Math 8: 1-5 Notes ph


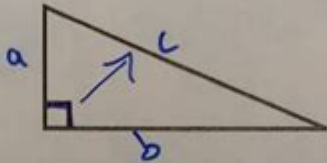
Why is this useful?

The Pythagorean Theorem is one of math's oldest and most famous formulas.

This formula allows us to determine any missing side length of a right triangle provided we know two side lengths.

The formula is $a^2 + b^2 = c^2$

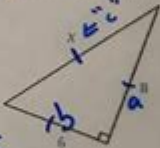
a - leg
b - leg
c - hypotenuse



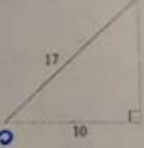
3. Examples: Using the Pythagorean Theorem to Find Missing Lengths

Find the unknown length. Represent your answer as a square root and a decimal to one decimal place.

a) $a^2 + b^2 = c^2$
 $8^2 + 6^2 = x^2$
 $64 + 36 = x^2$
 $100 = x^2$
 $10 = x$

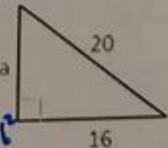


b) $x^2 + 10^2 = 17^2$
 $x^2 = 17^2 - 10^2$
 $x^2 = 289 - 100$
 $x = \sqrt{189} \dots \text{estimate}$

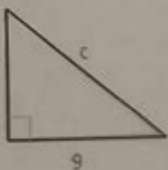


4. Practice: Find the Missing Side

a) $16^2 + a^2 = 20^2$
 $a^2 = 20^2 - 16^2$
 $= 400 - 256$
 $= 144$
 $a = 12$



b) $7^2 + 9^2 = c^2$
 $49 + 81 = c^2$
 $130 = c^2$
 $\sqrt{130} = c$



8-2 Practice the Pythagorean Theorem: Mastering Right Triangles

Are you struggling to conquer the Pythagorean Theorem? Does the idea of finding missing sides in right triangles leave you feeling lost? This comprehensive guide provides ample 8-2 practice with the Pythagorean Theorem, transforming your frustration into mastery. We'll walk you through examples, different problem types, and helpful strategies to ensure you confidently tackle any Pythagorean Theorem problem that comes your way. Get ready to unlock the secrets of right triangles!

Understanding the Pythagorean Theorem: A Quick Refresher

The Pythagorean Theorem is a fundamental concept in geometry, specifically relating to right-angled triangles. It states that the square of the hypotenuse (the longest side, opposite the right angle) is equal to the sum of the squares of the other two sides (called legs or cathetus). This is often represented by the formula: $a^2 + b^2 = c^2$, where 'c' is the hypotenuse, and 'a' and 'b' are the legs.

8-2 Practice Problems: Finding the Hypotenuse

Let's jump into some 8-2 practice problems. We'll start with finding the hypotenuse, which is often the most straightforward application of the theorem.

Example 1: A right-angled triangle has legs of length 6 cm and 8 cm. Find the length of the hypotenuse.

Solution: Using the formula $a^2 + b^2 = c^2$, we substitute the values: $6^2 + 8^2 = c^2$. This simplifies to $36 + 64 = c^2$, resulting in $c^2 = 100$. Taking the square root of both sides, we get $c = 10$ cm.

Example 2: A ladder 15 meters long leans against a wall. The base of the ladder is 9 meters from the wall. How high up the wall does the ladder reach?

Solution: Here, the ladder is the hypotenuse (15m), and the distance from the wall is one leg (9m). We need to find the other leg (height). So, $9^2 + b^2 = 15^2$. This simplifies to $81 + b^2 = 225$. Subtracting 81 from both sides, we get $b^2 = 144$. Taking the square root, we find $b = 12$ meters.

8-2 Practice Problems: Finding a Leg

Finding a leg requires a slight adjustment in our approach, but the principle remains the same.

Example 3: A right-angled triangle has a hypotenuse of 13 cm and one leg of 5 cm. Find the length of the other leg.

Solution: We have $5^2 + b^2 = 13^2$. This becomes $25 + b^2 = 169$. Subtracting 25 from both sides, we get $b^2 = 144$. Therefore, $b = 12$ cm.

Example 4: A rectangular field has a diagonal of 25 meters and one side measuring 15 meters. What is the length of the other side?

Solution: The diagonal of a rectangle acts as the hypotenuse of a right-angled triangle formed by its sides. So, $15^2 + b^2 = 25^2$. This simplifies to $225 + b^2 = 625$. Subtracting 225, we have $b^2 = 400$. Taking the square root, we find $b = 20$ meters.

Advanced 8-2 Practice: Word Problems

The Pythagorean Theorem is frequently applied in real-world scenarios. Mastering word problems is crucial for practical application.

Example 5: A ship sails 12 km due east, then 5 km due north. How far is the ship from its starting point?

Solution: This forms a right-angled triangle where the east and north movements are the legs. We need to find the hypotenuse (distance from the starting point). $12^2 + 5^2 = c^2$. This simplifies to $144 + 25 = c^2$, so $c^2 = 169$. Therefore, $c = 13$ km.

Tips for Mastering the Pythagorean Theorem

Memorize the formula: Understanding the relationship between the sides is key.

Draw diagrams: Visualizing the problem helps immensely.

Practice regularly: The more you practice, the more comfortable you'll become.

Check your work: Always verify your answers.

Use a calculator: For more complex calculations, a calculator can save time.

Conclusion

This 8-2 practice with the Pythagorean Theorem should equip you with the skills to confidently tackle various problems. Remember to practice consistently and apply the strategies outlined above. With enough practice, the Pythagorean Theorem will become second nature. Now go forth and conquer those right triangles!

FAQs

1. Can the Pythagorean Theorem be used with triangles that are not right-angled? No, the Pythagorean Theorem only applies to right-angled triangles.
2. What if I get a negative number when solving for a side? A negative length is not physically possible, indicating an error in your calculations. Double-check your work.
3. Are there any real-world applications of the Pythagorean Theorem besides navigation? Yes, it's used in construction, surveying, and even computer graphics.

4. What if I get a decimal answer when solving for a side? Decimal answers are perfectly acceptable and often represent more realistic measurements.

5. Is there a way to check my answer after applying the Pythagorean Theorem? Yes, substitute your calculated values back into the equation $a^2 + b^2 = c^2$ to verify if the equality holds true.

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