

Geometry Pythagorean Theorem Worksheets

GEOMETRY

Free Printable PDF Worksheet
Answer Key Included

■ Geometry Pythagorean Theorem Worksheets

Use the Pythagorean Theorem ($a^2 + b^2 = c^2$) to find the missing side.

1. $b = 4$, $c = 5$. Find a (leg).

1. $a = 9$, $c = 15$. Find b (leg).

2. $a = 5$, $b = 12$. Find c (hypotenuse).

2. $b = 16$, $c = 20$. Find a (leg).

3. $a = 8$, $c = 17$. Find b (leg).

3. $b = 4$, $c = 5$. Find a (leg).

4. $a = 7$, $c = 25$. Find b (leg).

4. $a = 5$, $b = 12$. Find c (hypotenuse).

5. $a = 6$, $b = 8$. Find c (hypotenuse).

5. $a = 8$, $b = 15$. Find c (hypotenuse).

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■ Answer Key

Answers for: Geometry Pythagorean Theorem Worksheets

1. $a^2 = 5^2 - 4^2 = 25 - 16 = 9$; $a = 3$

2. $c^2 = 5^2 + 12^2 = 25 + 144 = 169$; $c = 13$

3. $b^2 = 17^2 - 8^2 = 289 - 64 = 225$; $b = 15$

4. $b^2 = 25^2 - 7^2 = 625 - 49 = 576$; $b = 24$

5. $c^2 = 6^2 + 8^2 = 36 + 64 = 100$; $c = 10$

6. $b^2 = 15^2 - 9^2 = 225 - 81 = 144$; $b = 12$

7. $a^2 = 20^2 - 16^2 = 400 - 256 = 144$; $a = 12$

8. $a^2 = 5^2 - 4^2 = 25 - 16 = 9$; $a = 3$

9. $c^2 = 5^2 + 12^2 = 25 + 144 = 169$; $c = 13$

10. $c^2 = 8^2 + 15^2 = 64 + 225 = 289$; $c = 17$

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