

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

Practicing using the Pythagorean Theorem

Use the Pythagorean Theorem, Algebra, and Geometry to find the remaining side of the triangle.

1. $a = 3, b = 4, c = \underline{5}$

$$\begin{aligned} 3^2 + 4^2 &= c^2 \\ \sqrt{25} &= c^2 \\ c &= 5 \end{aligned}$$

3. $b = 10, c = 15, a = \underline{\quad}$

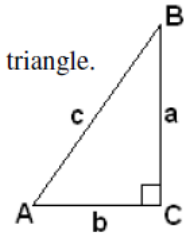
$$\begin{aligned} 15^2 - 10^2 &= a^2 \\ \sqrt{25} &= a^2 \\ a &= 11.1 \end{aligned}$$

2. $a = 5, b = 12, c = \underline{\quad}$

$$\begin{aligned} 5^2 + 12^2 &= c^2 \\ \sqrt{169} &= c^2 \\ c &= 13 \end{aligned}$$

4. $a = 4, c = 6, b = \underline{\quad}$

5. $a = b = 9, c = \underline{\quad}$



May 1-1:41 PM

Activities after Pythagorean Theorem

May 2-1:44 PM