

Pythagorean Theorem: Level 3

Solutions

Find the missing side lengths of each right triangle. Round any irrational side lengths to the nearest tenth.

1.



$$\begin{aligned}
 x^2 + x^2 &= (\sqrt{288})^2 \\
 2x^2 &= 288 \\
 x^2 &= 144 \\
 x &= 12
 \end{aligned}$$

The missing sides are both **12** units long.

2.



$$\begin{aligned}
 x^2 + (2x)^2 &= (\sqrt{245})^2 \\
 x^2 + 4x^2 &= 245 \\
 5x^2 &= 245 \\
 x^2 &= 49 \\
 x &= 7
 \end{aligned}$$

The missing sides are **7** units and **14** units long.

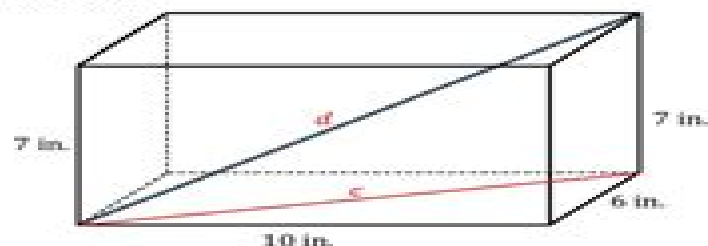
3. Determine if the statement below is true or false.

"The sum of the legs of a right triangle is always equal to the length of the hypotenuse."

True

False

4. A straw is placed inside a rectangular box that is 10 inches by 6 inches by 7 inches. If the straw fits exactly into the box diagonally from the bottom left front corner to the top right back corner, about how long is the straw?



$$6^2 + 10^2 = c^2$$

$$36 + 100 = c^2$$

$$136 = c^2$$

$$\sqrt{136} = c$$

$$7^2 + (\sqrt{136})^2 = d^2$$

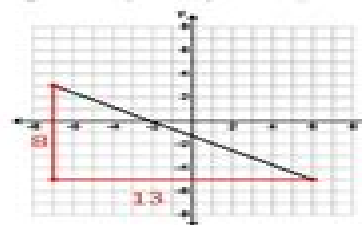
$$49 + 136 = d^2$$

$$185 = d^2$$

$$13.6 \approx d$$

The straw is about **13.6** inches long.

5. Determine the distance between the two ordered pairs: $(-7, 3)$ and $(6, -5)$.



$$8^2 + 13^2 = c^2$$

$$64 + 169 = c^2$$

$$233 = c^2$$

$$15.3 \approx c$$

The distance is about **15.3** units.

2 The Pythagorean Theorem Answers

BM King



2 The Pythagorean Theorem Answers:

Reviewing **2 The Pythagorean Theorem Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**2 The Pythagorean Theorem Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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