ZiloAcademy

✨ Grade 10 Maths — Pythagoras' Theorem & Converse ✨

Name: Demo **Date:** 26/11/2026

1. A right-angled triangle has shorter sides 231 cm and 392 cm. Find the length of the hypotenuse (cm).

2. A triangle has sides 325, 360 and 485. Is it right-angled? (yes / no)

3. A right-angled triangle has shorter sides 56 cm and 105 cm. Find the length of the hypotenuse (cm).

4. A triangle has sides 195, 216 and 293. Is it right-angled? (yes / no)

5. A triangle has sides 60, 175 and 184. Is it right-angled? (yes / no)

6. A rectangular box measures 8 cm × 16 cm × 16 cm. Find the length of its longest diagonal (cm).

7. A right-angled triangle has hypotenuse 318 m and one side 270 m. Find the other side (m).

8. A right-angled triangle has hypotenuse 82 m and one side 80 m. Find the other side (m).

9. A right-angled triangle has hypotenuse 25 m and one side 20 m. Find the other side (m).

10. A right-angled triangle has shorter sides 21 cm and 72 cm. Find the length of the hypotenuse (cm).