

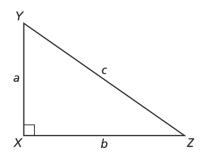
What Exam Does An Exterminator Have To Take?

Write the letter of each answer in the box containing the exercise number.

Complete the sentence.

- **1.** A(n) _____ of the lengths of two sides in a right triangle is called a trigonometric ratio.
- **2.** The tangent ratio is a(n) _____ for acute angles that involves the lengths of the legs of a right triangle.
- **3.** The angle that an upward line of sight makes with a line drawn horizontally is called the angle of _____.
- **4.** The ______ is the ratio of the leg opposite a given angle to the leg adjacent to the given angle in a right triangle.

Use the diagram. Round your answer to the nearest tenth.



- **5.** $a = 10, b = 15, c = 5\sqrt{13}$; Find the tangent of $\angle Z$.
- **6.** $a = 10, b = 15, c = 5\sqrt{13}$; Find the tangent of $\angle Y$.
- **7.** $a = 18, m \angle Y = 42^{\circ}$; Find b.
- **8.** $b = 22, m \angle Z = 30^{\circ}$; Find a.
- **9.** $b = 28, m \angle Y = 64^{\circ}$; Find a.

Answers

- O. geometric ratio
- T. tangent
- **A.** 0.7
- N. side
- P. ratio
- **T.** hypotenuse
- **S.** 13.7
- **H.** 1.1
- **E.** 0.1
- **S.** trigonometric ratio
- **E.** 1.5
- **R.** 1.6
- T. elevation
- **U**. 22
- **T.** 16.2
- **B.** 28
- S. depression
- **E.** 12.7