

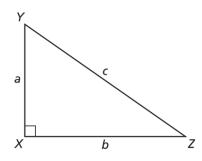
What Exam Does An Exterminator Have To Take?

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



What Is A Computer Virus?

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

Complete the sentence.

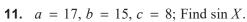
- 1. The _____ and cosine ratios are trigonometric ratios for acute angles that involve the lengths of a leg and the hypotenuse of a right triangle.
- **2.** The sine of an angle is equal to the _____ of its complement.
- 3. The cosine of an angle is equal to the sine of its
- **4.** The angle that a downward line of sight makes with a horizontal line is called the angle of _____.

Write the expression in terms of cosine.

Write the expression in terms of sine.

9.
$$\cos 15^{\circ}$$

Use the diagram. Find the indicated value. Round your answer to four decimal places.



12.
$$a = 26, b = 10, c = 24$$
; Find cos Z.

13.
$$a = 25, b = 24, c = 7$$
; Find $\cos X$.

14.
$$a = 15, b = 9, c = 12$$
; Find sin Z.

15.
$$a = 22, m \angle Z = 41^{\circ}$$
; Find b.

16.
$$a = 22, m \angle Z = 41^{\circ}$$
; Find c.

L. sin 54° **M.** 14.4333 M. $\cos 48^{\circ}$ **A.** tangent N. cosine T. sine **E.** sin 19° **A.** sin 75° L. cos 12° **I.** 0.8000 **A.** 0.8824 **S.** 0.8213 **S.** $\cos 65^{\circ}$ S. $\cos 42^{\circ}$ **O.** elevation N. supplement **L.** 0.3846 **N.** depression U. $\cos 35^{\circ}$ **R.** 0.2800 **V.** sin 13° I. complement **E.** 16.6036 **D.** 0.6554 **G.** 12.7998

Answers

