

9.5

Puzzle Time

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.

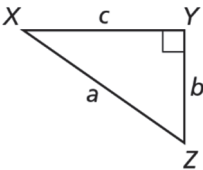
5. $\sin 48^\circ$
6. $\sin 78^\circ$
7. $\sin 25^\circ$

Write the expression in terms of sine.

8. $\cos 36^\circ$
9. $\cos 15^\circ$
10. $\cos 71^\circ$

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

11. $a = 17, b = 15, c = 8$; Find $\sin X$.
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 .



Answers

- L. $\sin 54^\circ$

A. tangent

N. cosine

E. $\sin 19^\circ$

L. $\cos 12^\circ$

A. 0.8824

S. $\cos 65^\circ$

O. elevation

L. 0.3846

U. $\cos 35^\circ$

V. $\sin 13^\circ$

I. complement

D. 0.6554
- M. 14.4333

M. $\cos 48^\circ$

T. sine

A. $\sin 75^\circ$

I. 0.8000

S. 0.8213

S. $\cos 42^\circ$

N. supplement

N. depression

R. 0.2800

E. 16.6036

G. 12.7998

9		1	10	13	16	14	4	11	6		3	12	8	2	15	7	5
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