



Puzzle Time

Why Should You Always Walk A Mile In People's Shoes Before You Criticize Them?

A	B	C	D	E	F
G	H	I	J	K	L

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

0.8391 FEET
-0.8391 A
false SOCKS
included YOU'LL
-0.1763 TO
cotangent AND
16.8 SHOES
8.9 ROAD
true BECAUSE
0.9063 AND
129.6 END
173.7 HAVE

Complete the sentence.

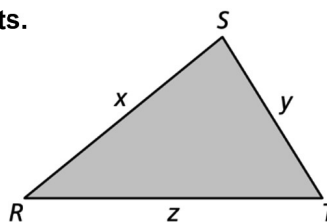
- A. If $\triangle ABC$ has sides of length a , b , and c , then the following are true:
 $a^2 = b^2 + c^2 - 2bc \cos A$, $b^2 = a^2 + c^2 - 2ac \cos B$, and
 $c^2 = a^2 + b^2 - 2ab \cos C$. True or false?
- B. The Law of _____ can be used to solve triangles when two sides and the included angle are known, or when all three sides are known.
- C. The area of any triangle is given by one-half the product of the lengths of two sides times the sine of their _____ angle.
- D. The Law of _____ can be used to solve triangles when two angles and the length of any side are known, or when the lengths of two sides and an angle opposite one of the two sides are known.

Use technology to find the trigonometric ratio. Round your answer to four decimal places.

- E. $\tan 140^\circ$ F. $\sin 170^\circ$ G. $\cos 135^\circ$ H. $\sin 115^\circ$

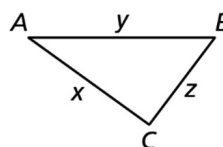
Find the area of the triangle in square units. Round your answer to the nearest tenth.

- I. $x = 21$, $z = 18$, $m\angle R = 44^\circ$
- J. $x = 26$, $y = 15$, $m\angle S = 63^\circ$



Solve for the indicated measure. Round decimal answers to the nearest tenth.

- K. $x = 11$, $y = 14$, $m\angle A = 40^\circ$; Find z .
- L. $x = 15$, $y = 24$, $m\angle C = 98^\circ$; Find z .



-0.4226 THE
14.9 SO
sines BE
0.1736 MILE
opposite PATH
9.0 THEIR
cosines THEN
-0.7071 AWAY
tangent HURT
131.3 YOU'LL
174.0 NICE