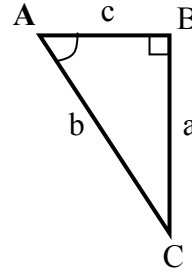


Trigonometry  
Quiz 2 – Right Triangle Trigonometry

Directions: Unless otherwise indicated, round all answers to the nearest tenth.

1) In triangle ABC, if  $\angle A$  is the reference angle:

- Side \_\_\_\_\_ is the hypotenuse.  
 Side \_\_\_\_\_ is the adjacent side.  
 Side \_\_\_\_\_ is the opposite side.

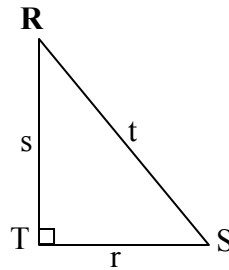


2) The sine ratio is:

- a) opp/hyp  
 b) adj/hyp  
 c) opp/adj  
 d) hyp/opp

3) Given triangle RST, write the cosine of angle R.

$\cos R = \underline{\hspace{2cm}}$



4) Evaluate problems a – i using your scientific calculator. Round your answers to four decimal places.

- |   |   |   |
|---|---|---|
| a) $\sin 4^\circ = \underline{\hspace{2cm}}$  | d) $\sin 90^\circ = \underline{\hspace{2cm}}$ | g) $\tan 5^\circ = \underline{\hspace{2cm}}$    |
| b) $\cos 12^\circ = \underline{\hspace{2cm}}$ | e) $\cos 90^\circ = \underline{\hspace{2cm}}$ | h) $\cos 14.5^\circ = \underline{\hspace{2cm}}$ |
| c) $\tan 70^\circ = \underline{\hspace{2cm}}$ | f) $\tan 90^\circ = \underline{\hspace{2cm}}$ | i) $\sin 73.2^\circ = \underline{\hspace{2cm}}$ |

5) Evaluate problems a – f using your scientific calculator. Write your answers to the nearest tenth of a degree.

- |                      |                      |                      |
|----------------------|----------------------|----------------------|
| a) $\sin A = 0.6428$ | c) $\tan A = 5.6713$ | e) $\cos A = 0.6428$ |
| b) $\cos A = 0.9336$ | d) $\tan A = 0.1763$ | f) $\sin A = 1$      |

6) A student writes this formula:  $\sin 65^\circ = \frac{x}{14}$  Which dimension is the student trying to determine?

- a) hypotenuse  
 b) reference angle  
 c) opposite side  
 d) adjacent side

Trigonometry  
Quiz 2 – Right Triangle Trigonometry

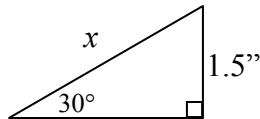
7) A student writes this formula:  $\tan 15^\circ = \frac{0.25}{x}$  Which dimension is the student trying to determine?

- a) hypotenuse
- b) reference angle
- c) opposite side
- d) adjacent side

8) Solve this formula for A:  $\tan A = \frac{1.7}{0.8}$

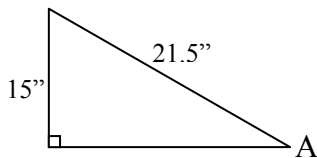
9) Solve this formula for x:  $\cos 10^\circ = \frac{3.2}{x}$

10) Given this situation, which trig formula (sine, cosine, or tangent) must be used to solve for x?

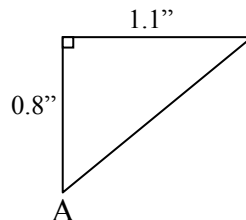


11) Solve each of the following right triangles a- h. Determine the missing dimension(s) and round them to the nearest tenth.

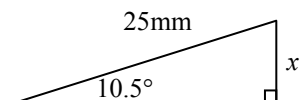
a)



b)

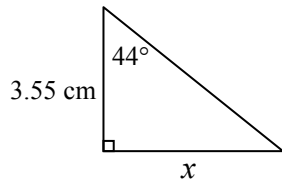


c)

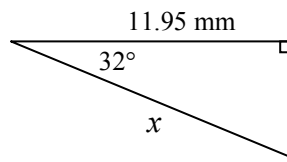


Trigonometry  
Quiz 2 – Right Triangle Trigonometry

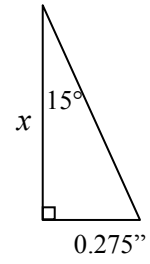
d)



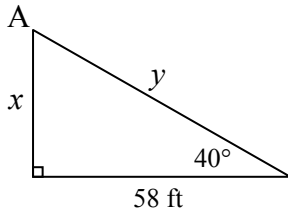
e)



f)



g)



h)

