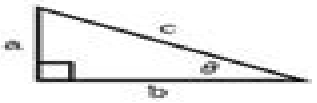
Republic of the Philippines
Department of Education
MIMAROPA Region
Division of Puerto Princesa City

Mastery Test for 4th Quarter in Mathematics 9

Directions: Read each question carefully. Choose the letter of the correct answer.

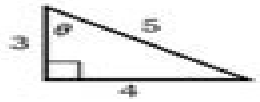
1. What ratio of the sides of a right triangle is the *cotangent* of the given angle?
   A. $\frac{\text{opposite}}{\text{hypotenuse}}$ B. $\frac{\text{adjacent}}{\text{opposite}}$ C. $\frac{\text{opposite}}{\text{adjacent}}$ D. $\frac{\text{hypotenuse}}{\text{adjacent}}$

2. Referring to the figure on the right, which of the following statements is correct?
   A. $\sin\theta = \frac{a}{c}$ C. $\cos\theta = \frac{a}{c}$
   B. $\csc\theta = \frac{c}{b}$ D. $\tan\theta = \frac{a}{b}$



3. What is the CORRECT statement for secant?
   The cosecant of an angle in a right triangle is equal to the:
   A. Ratio of the length of the hypotenuse to the length of the opposite side of the given angle.
   B. Ratio of the length of the hypotenuse to the length of the adjacent side of the given angle.
   C. Ratio of the length of the adjacent side to the length of the hypotenuse of the given angle.
   D. Ratio of the length of the adjacent side to the length of the opposite side of the given angle.

4. Referring to the figure on the right, what is the value of $\sin\theta + \cos\theta$?
   A. $\frac{23}{12}$ C. $\frac{37}{12}$
   B. $\frac{7}{8}$ D. $\frac{41}{20}$

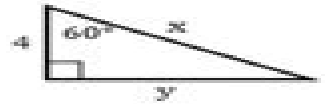


5. Which of the following is the value of $\cos 45°$?
   A. 0 B. $\frac{1}{2}$ C. $\frac{\sqrt{2}}{2}$ D. 1

6. What is the angle θ in $\tan\theta = \frac{\sqrt{3}}{3}$?
   A. 90° B. 60° C. 45° D. 30°

7. In a $45° - 45° - 90°$ *Right Triangle*, what is the relationship of the legs?
   A. The legs are less than the hypotenuse by $\frac{a}{2}$.
   B. The legs are more than the hypotenuse by $\sqrt{2}$.
   C. The legs are congruent.
   D. The legs are not congruent.

8. Referring to the figure on the right, which of the following statement is correct?
   A. $x = 8$ C. $\sin 60° = \frac{y}{4}$
   B. $\sin 30° = \frac{1}{x}$ D. $\cos 60° = \frac{4}{y}$

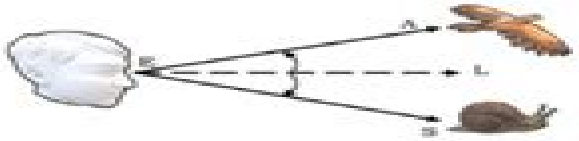


9. What do you call an angle between the horizontal line and line of sight from the observer's eye to some object above his eye?
   A. angle of depression C. angle of elevation
   B. angle of elongation d. angle of regression

For items 10 to 11, refer to the figure on the right.

10. Which refers to the angle of elevation?
    A. $\angle AEL$ C. $\angle AES$
    B. $\angle LES$ D. $\angle ALS$

11. Which refers to the angle of depression?
    A. $\angle AEL$ C. $\angle AES$
    B. $\angle LES$ D. $\angle ALS$



For items 12 to 15, refer to the situation below.

Along Rizal Avenue, Ben was standing on the top of a building. On the other side of the road, there was another taller building. The angle of depression is 30° when he looks down at the base of the building on the other side of the road and the angle of the elevation is 45° when he looks up at the top. His eye level from the top of the building where he is standing is 1.5 m and the distance between the bases of the two buildings is $10\sqrt{3}$ m.

12. What trigonometric ratio will you use to find the height of the building where Ben was standing?
    A. cosine B. cotangent C. sine D. tangent

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Jerry L. Frang

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