



Republic of the Philippines  
DEPARTMENT OF EDUCATION  
Region XI  
DIVISION OF DAVAO DEL NORTE  
**KAPALONG NATIONAL HIGH SCHOOL**  
Manili, Kapalong, Davao del Norte



**FOURTH QUARTER EXAMINATION**  
**MATHEMATICS**  
**S.Y. 2022-2023**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade & Section: \_\_\_\_\_

Score: \_\_\_\_\_

**Test I. MULTIPLE CHOICE.** Read and analyze each statement carefully then write the letter of the correct answer.

1. Which trigonometric ratio is defined as the ratio of the side opposite the angle to the hypotenuse?

- a) Sine                      b) Cosine                      c) Tangent                      d) Secant

2. The reciprocal of the sine ratio is:

- a) Cosine                      b) Tangent                      c) Secant                      d) Cosecant

3. Which trigonometric ratio(s) will have a value of 1 for an angle in the first quadrant?

- a) Sine                      b) Cosine                      c) Tangent                      d) Both a and b

4. If the sine of an angle is 0.5, what is the value of the angle in degrees?

- a)  $30^\circ$                       b)  $45^\circ$                       c)  $60^\circ$                       d)  $90^\circ$

5. Given a right triangle with an acute angle of 30 degrees, which of the following is the correct value of the sine ratio?

- a) 1                      b) 0.5                      c) 0.866                      d) 0

6. A tree casts a shadow 15 meters long. If the angle of elevation from the tip of the shadow to the top of the tree is 40 degrees, what is the height of the tree (to the nearest meter)?

- a) 22 meters                      b) 18 meters                      c) 12 meters                      d) 10 meters

7. A ladder is placed against a wall. The foot of the ladder is 2 meters away from the base of the wall, and the ladder reaches a height of 5 meters on the wall. If the angle of elevation from the ground to the top of the ladder is 60 degrees, what is the length of the ladder?

- a) 4 meters                      b) 5 meters                      c) 6 meters                      d) 7 meters

8. A hot air balloon is floating at a height of 150 meters above the ground. A person standing on the ground observes the balloon at an angle of depression of 45 degrees. How far away is the balloon from the person?

- a) 150 meters                      b) 106.1 meters                      c) 212.1 meters                      d) 300 meters

9. In an oblique triangle, which of the following sides can be equal in length?

# Grade 9 Math Final Exam Memorandum

**AW Rasmussen**



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