Pre-test 1a
CE EXIT 1
Week 1, Day 1

Name _____
Spec _____
Date _____
Year _____
Block _____
Score

INSTRUCTION: Answer all the questions provided. **ENCIRCLE THE LETTER OF THE CORRECT ANSWER** and write your answer in the blank for each item. Make your solution as neat as possible, and box your final answers only.

Problem Solving
Point system: 2 pt (correct letter), 2 pts (solution)

1. Compute the interest for an amount of Php 200,000 for a period of 8 years if it was made at a simple interest of 16%.
   a. P184,360
   b. **P256,000**
   c. P149,200
   d. P242,400

2. Evaluate the integral: $\int_0^{\pi/4} 8x\cos 2x \, dx$
   a. 2.47
   b. **1.14**
   c. 3.52
   d. 5.56

3. The vertical angle of the top of the flagpole as observed from point A is equal to 60°, and that of the bottom of the flagpole is 52°. The flagpole is placed on the of a pedestal. The distance from A to the base of the pedestal is 14.20 meters. Find the height of the pedestal.
   a. 21.42 m
   b. 16.25 m
   c. **18.18 m**
   d. 14.32 m

4. Find the value of $\log_x 146$ if $\log_x 15 = 3.154$.
   a. 6.26
   b. **5.44**
   c. 7.18
   d. 4.73

5. Two side of a triangle measure 16 m and 51 m. Its area is 234.32 m². Find its perimeter.
   a. **106 m**
   b. 112 m
   c. 119 m
   d. 125 m

6. Solve z from the following equations: $xy = 12$; $yz = 20$, $zx = 15$.
   a. **±5**
   b. ±4
   c. ±3
   d. ±2

7. Two forces acting at a point and angle between them is 120°. The larger force is of magnitude 80 N and the resultant of these two forces is perpendicular to the smaller force. Find the magnitude of smaller force and resultant.
   a. 50 N
   b. **40 N**
   c. 45 N
   d. 60 N

8. Solve for sin θ, if tan 3θ = 5 tan θ.
   a. 0.5695
   b. 0.7152
   c. 0.5562
   d. **0.5536**

9. A car travels from point A northward for 30 minutes then eastward for one hour, then shifted N 30° E. If the constant speed is 50 kph, how far directly from A, in km will be it after 2 hours?
   a. 90
   b. 100
   c. **80**
   d. 70

10. The HR Manager of Ayala Land Corporation is to hire three out of then competent applicants. How many ways can the HR Manager choose?
    a. 156
    b. 95
    c. 114
    d. **120**

11. How many ways can 1 president, 1 vice president and one secretary can be chosen from 14 PICE members?
    a. 1828
    b. 1521
    c. **2184**
    d. 364

12. A right circular cone has a base radius of x and an altitude of 3x. What is the value of slant height?
    a. 6.13x
    b. 1.36x
    c. **3.16x**
    d. 3.61x

13. Two sides of a parallelogram are 68 cm and 83 cm and one of the diagonals is 42 cm. Solve for the largest interior angle of the parallelogram.
    a. **149.73°**
    b. 156.28°
    c. 162.36°
    d. 174.14°

14. An observer on the top of a cliff 180 m high above sea level observes the angle of depression of two ships, which are due north from him, to be 20° 12' and 47° 39'. Find the distance between the ships in meters.
    a. 358.7
    b. 261.4
    c. 296.4
    d. **325.2**

Situation 1
A man deposits a uniform amount of Php 2,500 at the end of each year with an interest of 2.50% compounded annually.

15. Find the amount of the investment after 20 years.
    a. Php 64,356
    b. Php 64,361
    c. Php 63,636
    d. **Php 63,861**

16. How long will it take for the investment to become Php 80,872.59?
    a. 23 years
    b. 21 years
    c. 22 years
    d. **24 years**

Situation 2
A swimming pool is constructed in the shape of two intersecting identical circles having a radius of 9 meters. The distance between their centers is 9 meters.

17. Find the area of common to the two circles.
    a. 107.11 m²
    b. **99.50 m²**
    c. 73.55 m²
    d. 80.27 m²

18. Find the area of the swimming pool.
    a. 435.09 m²
    b. **409.44 m²**
    c. 425.67 m²
    d. 401.83 m²

Situation 3
The fourth term and the tenth term of a geometric progression are 54 and 39,366, respectively.

19. Determine the common ratio.
    a. 2
    b. **3**
    c. 4
    d. 5

20. Determine the first term.
    a. **2**
    b. 3
    c. 4
    d. 5

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Nicholas Chrisman

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Mathematics GLENCOE,1995 <u>Prentice Hall Algebra</u> Prentice-Hall, Inc,2002-09 Prentice Hall Mathematics offers comprehensive math content coverage introduces basic mathematics concepts and skills and provides numerous opportunities to access basic skills along with abundant remediation and intervention activities **Glencoe Algebra 1** ,2001 **Te Math Advantage 98 Gr 6 Vol 1** Harcourt Brace Publishing,1997-10-10 *Foundations of Algebra and Geometry* ,1996 , **Basic Concepts of Chemistry** Leo J. Malone,Theodore Dolter,2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance **Elementary Functions and Coordinate Geometry** Marvin Marcus,Henryk Minc,1969 <u>A-Level Maths Textbook: Year 1 & 2</u> ,2021-08-27 This huge CGP Textbook is packed with thousands of questions for both years of A Level Maths it s suitable for the Edexcel AQA OCR and OCR MEI courses It s perfect for helping students put their knowledge to the test and build their skills The book also contains plenty of worked examples practice exercises on almost every page and review questions at the end of each chapter Better still answers to every question are included at the back

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Exploring Geographic Information Systems Nicholas Chrisman,1997 Geographic Information Systems GIS is the organized activity by which people measure aspects of geographic phenomena and processes represent these measurements usually in the form of a computer database to emphasize spatial themes entities and relationships operate upon these representations to produce more measurements and to discover new relationships by integrating disparate sources and transform these representations to conform to other frameworks of entities and relationships These activities reflect the larger context such as institutions and cultures in which these people carry out their work In turn the GIS may influence these structures This text provides the comprehensive coverage you will need to master this powerful new technology

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