

CIVIL ENGINEERING LICENSURE EXAM

APPLIED RATE, SURVEYING, TRANSPORTATION & HIGHWAY ENG'G, CONSTRUCTION MGT.
Thursday, December 01, 2022

Module 04

INSTRUCTION: Select the correct answer for each of the following questions. Mark only one answer for each item by shading the box corresponding to the letter of your choice on the answer sheet provided. **STRICTLY NO ERASURES ALLOWED.** Use pencil no. 2 only. **NOTE: REMEMBER YOU CAN ENCOUNTER A CASE (+) SIGN, IT MEANS EXPONENTIATION.**

ANGLES/ DISTANCES/ SLOPES

- Find the coordinates of a point equidistant from (1, -2), (5, -2) and (6, -1).
A. (-2, -2) B. (3, -2)
C. (-3, -2) D. (2, -2)
- Determine the coordinates of the point which is three-fifths of the way from the point (2, -5) to the point (-3, 5).
A. (-2, 1) B. (-3, -1)
C. (-1, -2) D. (1, -1)
- Find the angle formed by the lines $3x + y - 2 = 0$ and $x + 2y - 4 = 0$.
A. 30° B. 60°
C. 45° D. 90°
- The two points on the line $2x + 3y + 4 = 0$ which are at a distance 2 from the line $3x + 4y + 5 = 0$ are
A. (-9, 1) and (-5, 2)
B. (-9, -1) and (-5, -2)
C. (9, 1) and (5, 2)
D. (9, -1) and (5, -2)
- What is the length of the line with a slope of $4/3$ from a point (4, 4) to the y-axis?
A. 10 B. 25
C. 50 D. 75
- If the points (-2, 3), (a, 7) and (-3, 5) lie on a straight line, then the equation of the line is
A. $x - 2y - 1 = 0$ B. $2x + y - 1 = 0$
C. $x - 2y - 1 = 1$ D. $2x + y - 1 = 3$
- Determine B such that $2x - 3y + 3 = 0$ is perpendicular to $2x - 3y + B = 0$.
A. 3 B. 4
C. 5 D. 2
- What is the equation of the line that passes thru (4, 0) and is parallel to the line $x + y - 2 = 0$?
A. $x + y + 4 = 0$ B. $x + y + 4 = 0$
C. $x + y - 4 = 0$ D. $x + y = 0$
- The vertices of a triangle are (2, 4) and (-2, 3) and the area is 2 square units. The locus of the third vertex is
A. $4x - y = 14$ B. $4x + 4y = 14$
C. $x + 4y = 14$ D. $x + 4y = -14$
- The two points on the line $2x + 4y + 12 = 0$ which are at a distance 2 from the line $3x + 4y + 5 = 0$ are
A. (15, -1) and (-22, 14)
B. (9, -1) and (22, -14)
C. (-9, 1) and (22, -14)
D. (-9, -1) and (-22, 14)
- What is the image of a point (-3, 10) as a translated origin at (4, -2)?
A. (-9, 14) B. (-9, 10)
C. (-3, 10) D. (-1, 14)
- Find the distance of the line $3x + 5y + 12 = 0$ to point (1, 2).
A. 10.47 B. 11.94
C. 12.92 D. 13.87

- A line passing through (4, 2) has a slope of $4/3$. Find the distance measured along the line from the point (4, 2) to the y-axis.
A. 10 B. 5
C. 2 D. 4
- Determine the x-intercept of the line that passes through (2, -5) and (-6, 5).
A. -2 B. 2
C. -5 D. 5
- The angle from L_1 , whose slope is $-1/3$, to line L_2 is 135° . Find the slope of L_2 .
A. $-1/3$ B. $1/3$
C. 2 D. -2
- Find the angle of intersection of the curves $x^2 + xy = 1$ and $y^2 = 4x - 1$.
A. 45.4° B. 49.4°
C. 50.4° D. 75.4°
- Find the acute angle of intersection between the curves $xy = 16$ and $y^2 = 4x$.
A. 71.6° B. 75.3°
C. 45.4° D. 69.3°
- Given cubic curve $y = x^3 + x^2 + x + 2$ and line $y = x$. Determine the angle of intersection between the curves.
A. 40.60° B. 42.60°
C. 45.20° D. 49.10°
- Find k such that the line $y = 4x + 3$ is tangent to the curve $y = x^2 + k$.
A. 3 B. 5
C. 4 D. 6
- The coordinate system is designed for a football field. Each unit represents one meter. Pepe is at point P (15, -20). The path of the ball from a corner kick is represented by the equation $y = (4/3)x$. To have the best chance for a shot on goal, Pepe wants to run toward the ball so that his path meets the ball at right angles. Find the equation for the line on which Pepe should run.
A. $y - 20 = (3/4)(x - 15)$
C. $y - 20 = (3/4)(x - 15)$
B. $y - 20 = (4/3)(x - 15)$
D. $y - 20 = (3/4)(x - 15)$

CIRCLE

- What is the distance between the centers of the circles $x^2 + y^2 + 2x + 4y + 3 = 0$ and $x^2 + y^2 + 8x - 6y + 7 = 0$?
A. 7.07 B. 7.77
C. 8.07 D. 7.87
- The shortest distance from A (3, 5) to the circle $x^2 + y^2 + 4x + 4y + 12 = 0$ is equal to
A. 2.5 B. 3.5
C. 3.8 D. 2.7
- Find the equation of the tangents to the circle $x^2 + y^2 - 4x = 0$ through point (3, 3).
A. $3x + 5y - 34 = 0$ B. $3x - 5y - 34 = 0$
C. $3x + 5y - 34 = 0$ D. $3x - 5y - 34 = 0$

Answer Key For Ccgps

RD Boyd



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Table of Contents Answer Key For Ccgps

1. Understanding the eBook Answer Key For Ccgps
 - The Rise of Digital Reading Answer Key For Ccgps
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key For Ccgps
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Key For Ccgps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key For Ccgps

- Personalized Recommendations
- Answer Key For Ccgps User Reviews and Ratings
- Answer Key For Ccgps and Bestseller Lists
- 5. Accessing Answer Key For Ccgps Free and Paid eBooks
 - Answer Key For Ccgps Public Domain eBooks
 - Answer Key For Ccgps eBook Subscription Services
 - Answer Key For Ccgps Budget-Friendly Options
- 6. Navigating Answer Key For Ccgps eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key For Ccgps Compatibility with Devices
 - Answer Key For Ccgps Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key For Ccgps
 - Highlighting and Note-Taking Answer Key For Ccgps
 - Interactive Elements Answer Key For Ccgps
- 8. Staying Engaged with Answer Key For Ccgps
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key For Ccgps
- 9. Balancing eBooks and Physical Books Answer Key For Ccgps
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key For Ccgps
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key For Ccgps
 - Setting Reading Goals Answer Key For Ccgps
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key For Ccgps

- Fact-Checking eBook Content of Answer Key For Ccgps
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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