

**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 NEGATIFICATION.**

**ANGLES/ DISTANCES/ SLOPES**

- Find the coordinates of a point equidistant from (1, -2), (5, -8) 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.  $30^\circ$  B.  $60^\circ$   
C.  $45^\circ$  D.  $90^\circ$
- 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. (5, -1) and (22, -14)  
C. (-5, 1) and (22, -14)  
D. (-5, -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  $135^\circ$ . 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.  $45.4^\circ$  B.  $49.4^\circ$   
C.  $50.4^\circ$  D.  $75.4^\circ$
- Find the acute angle of intersection between the curves  $xy = 16$  and  $y^2 = 4x$ .  
A.  $71.6^\circ$  B.  $75.3^\circ$   
C.  $45.4^\circ$  D.  $69.3^\circ$
- Given cubic curve  $y = x^3 + x^2 + x + 2$  and line  $y = x$ . Determine the angle of intersection between the curves.  
A.  $40.60^\circ$  B.  $42.60^\circ$   
C.  $45.20^\circ$  D.  $49.10^\circ$
- 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  $x^2 + y^2 - 6x - 6y + 7 = 0$ ?  
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.  $3x - 5y - 34 = 0$

# Walch Education Analytic Geometry Unit Answer Key

**Thirumalaisamy P.**  
**Velavancorresponding**



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