

COLLEGE OF ENGINEERING AND ARCHITECTURE
MATHEMATICS EXIT EXAMINATION
1ST AY 2022-2023

DIRECTIONS:

1. Read each question carefully.
2. Choose the letter that corresponds to the correct answer by shading the appropriate circle in the Answer Sheet provided.

1. If $y = x(\ln x)$, find d^2y/dx^2 .

a. $1/x^2$

c. $1/x$

b. $-1/x$

d. $-1/x^2$

2. Find the derivative of $\arccos 4x$ with respect to x .

a. $-4/[1-(4x)^2]^{1/2}$

c. $-4/[1-(4x)^2]^{0.5}$

b. $-4/[1-(4x)^2]^{0.5}$

d. $-4/[(4x)^2-1]^{0.5}$

3. Given the function $f(x)$ to the 3rd power $-6x+2$, find the value of the first derivative at $x=2$, $f'(2)$.

a. 6

c. 7

b. $3x^2$

d. 8

4. The cost C of a product is a function of the quantity x the product is given by the relation:

$C(x) = x^2 - 4000x + 50$. Find the quantity for which the cost is a minimum.

a. 3000

c. 1000

b. 2000

d. 1500

5. A van is 5km due north of a of a bus at 2:00 p.m. If the van is travelling northward at the rate of 60 kph and the bus is travelling westward at the rate of 75 kph, how fast will the two separating at 5:00 p.m.?

a. 85.36 kph

c. 98.65 kph

b. 96.04 kph

d. 102.54 kph

6. Find dy/dx : $y = \sin(\ln x^2)$.

a. $2 \cos(\ln x^2)$

c. $2x \cos(\ln x^2)$

b. $2 \cos(\ln x^2)/x$

d. $2 \cos(\ln x^2) x^2$

7. Determine the radius of curvature at (4,4) of the curve $y^2+4x=0$.

a. 24.4

c. 23.4

b. 25.5

d. 22.4

8. Find the derivatives with respect to x of function $\sqrt{2-3x^2}$.

a. $-2x^2 \sqrt{2-3x^2}$

b. $-3x \sqrt{2-3x^2}$

c. $-2x^2 \sqrt{2+3x^2}$

Answer Key To Holt Mathematics Exit Exam

AW Rasmussen



Answer Key To Holt Mathematics Exit Exam:

Answer Key To Holt Mathematics Exit Exam Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Answer Key To Holt Mathematics Exit Exam**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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