

COLLEGE OF ENGINEERING AND ARCHITECTURE
MATHEMATICS EXIT EXAMINATION
2TAY 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. $1/x^2$

b. $-1/x$

c. $1/x$

d. $-1/x^2$

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

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

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

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

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

b. $3x^2$

c. 7

d. 8

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

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

a. 3000

b. 2000

c. 1000

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

b. 96.04 kph

c. 98.65 kph

d. 102.54 kph

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

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

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

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

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

b. 25.5

c. 23.4

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

Holt Mathematics Exit Exam Answer Key

R Sanford



Holt Mathematics Exit Exam Answer Key:

School Science and Mathematics ,1917 **Beyond Formulas in Mathematics and Teaching** Daniel Chazan,2000-01-01 Based on the author s experience as a researcher and teacher of lower track students *Beyond Formulas in Mathematics and Teaching* illuminates the complex dynamics of the algebra classroom From within this setting Daniel Chazan thoughtfully explores topics that concern all dedicated educators how to really know one s students how to find engaging material and how to inspire meaningful classroom conversations Throughout he addresses the predicaments that are central to the lives of teachers who work in standard educational settings By highlighting teaching dilemmas Chazan prompts readers to consider what their own responses would be in similar situations With an eye to ways of restructuring roles and relationships *Beyond Formulas in Mathematics and Teaching* is essential reading for educators seeking to enhance their teaching practices and understanding of students who may be estranged from school Forthcoming Books Rose Army,2003-04 Books in Print Supplement ,2002 **School Science and Mathematics** School Science and Mathematics,1917 Integrated Mathematics Holt McDougal,1998 *Holt Algebra 1 2003* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003 Government Reports Announcements ,1974 **Report** United States. Congress Senate,1965 **Holt Science and Technology 2002** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2002

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