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QUESTION 1

Evaluate the following definite integral:

$$\int_2^4 (x^4 - 6x) dx$$

- A. 123.6
- B. 162.4
- C. 183.7
- D. 250.2

Correct Answer: B

You begin by solving the integral and then evaluating the result between the limits of 2 and 4.

$$\begin{aligned} \int_2^4 (x^4 - 6x) dx &= \left(\frac{x^5}{5} - \frac{6x^2}{2} \right) = \left(\frac{x^5}{5} - 3x^2 \right) \Bigg|_2^4 = \left(\frac{(4)^5}{5} - 3(4)^2 \right) - \left(\frac{(2)^5}{5} - 3(2)^2 \right) \\ &= \left(\frac{1024}{5} - 48 \right) - \left(\frac{32}{5} - 12 \right) = \frac{812}{5} = 162.4 \end{aligned}$$

QUESTION 2

Evaluate the following derivative

$$\frac{d}{dx} (24x^3 - 9x^2 + 3x - 11) \text{ at } x = 3.$$

- A. 597
- B. 325
- C. 154
- D. 96

Correct Answer: A

QUESTION 3

What are the roots of the quadratic equation $3x^2 + 10x + 5 = 0$?

A. $x = \sqrt{2}, -\frac{5}{3}$ B. $x = 2, -\sqrt{\frac{5}{3}}$ C. $x = -2, \sqrt{\frac{5}{3}}$ D. $x = 2, -\frac{5}{3}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 4

What is the slope of a line described by $3x + 2y - 12 = 0$?

A. $\frac{3}{2}$ B. $-\frac{3}{2}$

C. $\frac{2}{3}$

D. $-\frac{2}{3}$

Correct Answer: B

The slope can be identified by adapting the equation to the formal equation of a line or $y = mx + b$

$$2y + 3x - 12 = 0$$

$$2y = -3x + 12$$

$$\frac{2y}{2} = \frac{-3x}{2} + \frac{12}{2}$$

$$y = -\frac{3}{2}x + 6$$

QUESTION 5

Evaluate the following indefinite integral:

$$\int (8 - t^3) dt$$

A. $-8t + \frac{t^4}{4} + C$

B. $-8t - \frac{t^4}{4} + C$

C. $8t - \frac{t^4}{4} + C$

D. $8t + \frac{t^4}{4} + C$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

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