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QUESTION 1

Evaluate the following definite integral:

$$\int_{2}^{4}\left(x^5 - 6x^3 + 8x + 2\right)dx$$

A. 110

B. 364

C. 148

D. 250

Correct Answer: B

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

$$\int_{2}^{4}\left(x^5 - 6x^3 + 8x + 2\right)dx = \left(\frac{x^6}{6} - \frac{6x^4}{4} + \frac{8x^2}{2} + 2x\right)\Bigg|_{2}^{4}$$

$$= \left(\frac{(4)^6}{6} - \frac{6(4)^4}{4} + \frac{8(4)^2}{2} + 2(4)\right) - \left(\frac{(2)^6}{6} - \frac{6(2)^4}{4} + \frac{8(2)^2}{2} + 2(2)\right)$$

$$= \left(\frac{4096}{6} - \frac{1536}{4} + \frac{128}{2} + 8\right) - \left(\frac{64}{6} - \frac{96}{4} + \frac{32}{2} + 4\right)$$

$$= \frac{4448}{12} - \frac{80}{12} = \frac{4368}{12} = 364.$$

QUESTION 2

Evaluate the following derivative: d/dx(5x4)

A. 0

B. 5x4

C. 20x3

D. 5x3

Correct Answer: C

QUESTION 3

Solve for x: (4x 1)2 = 121

A. -3

B. 4

C. 3

D. 6

Correct Answer: C

This equation can be solved by first taking the square root of both sides of the equation (4x 1)2 = 121 or

$$\sqrt{(4x-1)^2} = \sqrt{121}$$
$$4x - 1 = 11$$

Solving for x yields $x = 3$.

QUESTION 4

Chemistry students performed nine volume measurements of a solution during a lab and obtained the

following results:

{2.4mL, 3.2mL, 3.7mL, 3.7mL, 4.5mL, 6.8mL, 7.3mL, 8.1mL, 12.2mL}

What is the mode of the data set?

A. 3.7mL

B. 4.5mL

C. 5.8mL

D. 9.8mL

Correct Answer: A

The mode is the measurement that is the most frequent or common value in the data set. In this example, the mode is 3.7mL, because it occurs twice, more than any of the other measurements that occur only once.

QUESTION 5

What are the roots of the equation x^2 7x 18 = 0?

A. 4.5, 1

B. 2, 4.5

C. 3.5, 8

D. 1, 4.5

Correct Answer: A

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