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QUESTION 1

$$1/3 \div 5/9 =$$

A. $\frac{3}{5}$

B. $\frac{5}{3}$

C. $\frac{5}{9}$

D. $\frac{1}{9}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

The quotient of the two fractions can be found by writing the fractions as:

$$\frac{1}{3} \div \frac{5}{9} = \frac{1}{3} \cdot \frac{9}{5} = \frac{3}{5}$$

QUESTION 2

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.

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

QUESTION 3

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 4

Evaluate the following derivative:

$$\frac{d}{dx}(25 - 7x^3) \text{ at } x = -2$$

- A. 35
- B. 84
- C. -84
- D. 120

Correct Answer: C

You first must calculate the derivative before you can evaluate the derivative at a given point.

$$\frac{d}{dx}(25 - 7x^3) = -21x^2.$$

The derivative can now be evaluated at $x=2$ by plugging in the value of 2 for x in the derivative or

$$\left. \frac{d}{dx}(25 - 7x^3) \right|_{x=2} = -21 \cdot (-2)^2 = -21 \cdot 4 = -84.$$

QUESTION 5

What is the slope of a line that passes through the points (0, 4) and (4, 0)?

- A. 4
- B. -1
- C. 0
- D. undefined

Correct Answer: B

The slope of a line that passes through the points (0, 4) and (4, 0) can be found by:

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - 4}{4 - 0} = -\frac{4}{4} = -1.$$

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