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QUESTION 1

Evaluate the following indefinite integral: A. Option A

$$\int t^2 \left(\frac{5}{t} - \frac{t}{5} \right) dt$$

A. $\frac{5t^2}{2} + \frac{t^4}{20} + C$ B. $\frac{5t^2}{2} + \frac{t^4}{20} - C$ C. $-\frac{5t^2}{2} - \frac{t^4}{20} + C$ D. $-\frac{5t^2}{2} + \frac{t^4}{20} + C$

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 2

$$\left(\frac{4}{3} \right)^2 + \left(\frac{2}{4} \right)^2 =$$

A. 96/36

B. 84/36

C. 73/36

D. 65/36

Correct Answer: C

The sum of

$$\left(\frac{4}{3} \right)^2 + \left(\frac{2}{4} \right)^2 =$$

Can be found by first computing the value of each term

$$\left(\frac{4}{3}\right)^2 = \left(\frac{4^2}{3^2}\right) = \frac{16}{9}$$

$$\left(\frac{2}{4}\right)^2 = \left(\frac{2^2}{4^2}\right) = \frac{4}{16} = \frac{1}{4}$$

$$\left(\frac{4}{3}\right)^2 + \left(\frac{2}{4}\right)^2 = \frac{16}{9} + \frac{1}{4} = \frac{64+9}{36} = \frac{73}{36}$$

QUESTION 3

Evaluate the following derivative:

$$\frac{d}{dx}(5x^6)$$

A. $30x^5$

B. $\frac{30}{x^5}$

C. $\frac{15}{x^5}$

D. $15x^5$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

The derivative of this function can be evaluated by:

$$\frac{d}{dx}(5x^6) = 30x^5.$$

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 mean of the data set?

- A. 3.7mL
- B. 4.5mL
- C. 5.8mL
- D. 9.8mL

Correct Answer: C

The mean of a data set is the arithmetic average of the values of the data set or

$$\frac{2.4mL + 3.2mL + 3.7mL + 3.7mL + 4.5mL + 6.8mL + 7.3mL + 8.1mL + 12.2mL}{9} = \frac{51.9mL}{9} = 5.8mL.$$

QUESTION 5

What is the probability that two cards drawn from a deck of cards are face cards (king, queen, or jack) of any suit if the first card drawn is replaced before the second card is drawn?

- A. 9/169
- B. 1/16
- C. 3/13
- D. 1/26

Correct Answer: A

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