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**QUESTION 1**

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

QUESTION 2

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 3

Given the equation,

$$\frac{56}{4x+8} = \frac{1}{8},$$

What is the value of x?

- A. 64
- B. 110
- C. 164
- D. 215

Correct Answer: B

$$\frac{56}{4x+8} = \frac{1}{8}$$

, the goal is to isolate the unknown variable on one side of the equation with all other terms on the

$$(4x+8) \cdot \frac{56}{4x+8} = \frac{1}{8} \cdot (4x+8)$$

$$56 = \frac{1}{8} \cdot (4x+8)$$

other side. You begin by multiplying both sides of the equation by 4x+ 8:

You then divide both sides by 1/8 which, in essence, means you multiply both sides of the equation

$$\frac{8}{1} \cdot 56 = \frac{1}{8} \cdot (4x+8) \cdot \frac{8}{1}$$

$$448 = (4x+8).$$



by $\frac{8}{1}$ its reciprocal:

You then subtract 8 from both sides with the final step of dividing both sides by 4, giving you the desired result.

$$\begin{aligned}448 - 8 &= 4x \\ \frac{440}{4} &= x \\ x &= 110.\end{aligned}$$

QUESTION 4

Solve for x: $x^3 - 64x = 0$

- A. $x = \pm 8$
- B. $x = \pm 6$
- C. $x = \pm 4$
- D. $x = \pm 2$

Correct Answer: A

In order to solve the equation $x^3 - 64x = 0$ for x, you can apply factor analysis and solve for x in each term:

$$\begin{aligned}\frac{x^3}{x} - \frac{64x}{x} &= \frac{0}{x} \\ x^2 - 64 &= 0 \\ x &= \pm 8.\end{aligned}$$

QUESTION 5

Express 239 in scientific notation.

- A. 2.39×10^0 B. 2.39×10^1 C. 2.39×10^2 D. 2.39×10^3

- A. Option A
- B. Option B
- C. Option C



D. Option D

Correct Answer: C

The number 239 is expressed in scientific notation by first expressing the value in terms of a real number such that 1 a

$$2.39 \times 100 = 2.39 \times 10^2.$$

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