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Pharmacy College Admission Test - Quantitative





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QUESTION 1

Evaluate the following definite integral:

$$\int_2^4 (x^5 - 6x^3 + 8x + 2) dx$$

- 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.

$$\begin{aligned} \int_2^4 (x^5 - 6x^3 + 8x + 2) dx &= \left(\frac{x^6}{6} - \frac{6x^4}{4} + \frac{8x^2}{2} + 2x \right) \Big|_2^4 \\ &= \left(\frac{(4)^6}{6} - \frac{6(4)^4}{4} + \frac{8(4)^2}{2} + 2(4) \right) - \left(\frac{(2)^6}{6} - \frac{6(2)^4}{4} + \frac{8(2)^2}{2} + 2(2) \right) \\ &= \left(\frac{4096}{6} - \frac{1536}{4} + \frac{128}{2} + 8 \right) - \left(\frac{64}{6} - \frac{96}{4} + \frac{32}{2} + 4 \right) \\ &= \frac{4448}{12} - \frac{80}{12} = \frac{4368}{12} = 364. \end{aligned}$$

QUESTION 2

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 x 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 $8/1$ its reciprocal:

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

$$448 - 8 = 4x$$

$$\frac{440}{4} = x$$

$$x = 110.$$

QUESTION 3

Evaluate the following derivative: $d/dx(5a^4)$

A. 0

B. $5z^4$

C. $20a^3$

D. $5a^3$

Correct Answer: A

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

$$\frac{d}{dx}(x^n) = nx^{n-1}$$

QUESTION 4

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

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 5

$$(6x^2y^5z^3) \div (3x^2y^3z^6) =$$

A. $\frac{z^2}{2y^3}$

B. $\frac{y^2}{2z^3}$

C. $\frac{2y^2}{z^3}$

D. $\frac{2z^2}{y^3}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

$$x^2 \frac{x^2 + x - 42}{x + 7} = 1$$

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