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Pharmacy College Admission Test - Quantitative

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QUESTION 1

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

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

QUESTION 2

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

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

QUESTION 3

What is the slope of a line described by $3x + 2y - 12 = 0$?

- A. $3/2$ B. $-3/2$
- C. $2/3$
- D. $-2/3$

Correct Answer: B

The slope can be identified by adapting the equation to the formal equation of a line or $y=mx+b$

$$\begin{aligned} 2y + 3x - 12 &= 0 \\ 2y &= -3x + 12 \\ \frac{2y}{2} &= \frac{-3x}{2} + \frac{12}{2} \\ y &= -\frac{3}{2}x + 6 \end{aligned}$$

QUESTION 4

Express in scientific notation: 13.9

- A. 1.39×10^1
- B. 1.39×10^1
- C. 13.9×10^1
- D. 13.9×10^1

Correct Answer: B

In scientific notation, the number 13.9 is 1.39×10^1 .

QUESTION 5

The three most commonly used temperature scales are Fahrenheit (°F), Celsius (°C), and Kelvin (K). They are based on the freezing point and boiling point of water as shown below.

Temperature Scale	Freezing Point of Water	Boiling Point of Water
Fahrenheit (°F)	32	212
Celsius (°C)	0	100
Kelvin (K)	273	373

The formula for temperature conversion between the Fahrenheit and Celsius scales is

$$T_F = \frac{9}{5}T_C + 32$$

What is the linear equation relating temperature in Fahrenheit to temperature in Kelvin?

A. $T_F = -\frac{9}{5}T_K + 459.4$

C. $T_F = \frac{9}{5}T_K + 459.4$

B. $T_F = \frac{9}{5}T_K + 459.4$

D. $T_F = \frac{9}{5}T_K - 459.4$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

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