PCAT-SECTION3^{Q&As}

Pharmacy College Admission Test - Quantitative

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QUESTION 1

Solve for x: 4(2x + 20) +3(x 1) = 0

A. 11

B. 7

C. -7

D. 11

Correct Answer: C

This equation can be solved by simplifying each side of the equation, combining like terms, isolating x on one side of the equation and then solving for x:

$$4(2x+20)+3(x-1)=0$$
$$8x+80+3x-3=0$$
$$11x+77=0$$
$$x=-\frac{77}{11}=-7.$$

QUESTION 2

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 slope of the conversion formula relating temperature in Fahrenheit to temperature in Celsius?

A. $\dfrac{9\ {}^\circ F}{5\ {}^\circ C}$ **B.** $\dfrac{5\ {}^\circ F}{9\ {}^\circ C}$ **C.** $\dfrac{9\ {}^\circ C}{5\ {}^\circ F}$ **D.** $\dfrac{5\ {}^\circ C}{9\ {}^\circ F}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

When the equation is Adapted to the equation of a line, it can readily be seen that the slopeis.However, because the equation has physical significance, it is important that the units associated with the slope are clearly indicated. Because the slope is the ratio.

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

QUESTION 3

What is the average of the numbers 24, 53, 70, 89, 34, and 30?

A. 84

B. 39

C. 71

D. 50

Correct Answer: D

The average of a set of numbers is calculated by:

$$Avg = \frac{24+53+70+89+34+30}{6} = \frac{300}{6} = 50.$$

QUESTION 4

Evaluate the following derivative: A. Option A

$$\frac{d}{dx}\left(\frac{15}{3x^8}\right)$$

A. $-\frac{40}{x^9}$ **B.** $\frac{40}{x^9}$ **C.** $-\frac{40}{x^{-9}}$ **D.** $\frac{40}{x^{-9}}$

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 5

Evaluate the following definite integral:

$$\int_{2}^{4}\left(x^5 - 6x^3 + 8x + 2\right)dx$$

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.

$$\int_{2}^{4}\left(x^5 - 6x^3 + 8x + 2\right)dx = \left(\frac{x^6}{6} - \frac{6x^4}{4} + \frac{8x^2}{2} + 2x\right)\Big|_{2}^{4}$$

$$= \left(\frac{(4)^6}{6} - \frac{6(4)^4}{4} + \frac{8(4)^2}{2} + 2(4)\right) - \left(\frac{(2)^6}{6} - \frac{6(2)^4}{4} + \frac{8(2)^2}{2} + 2(2)\right)$$

$$= \left(\frac{4096}{6} - \frac{1536}{4} + \frac{128}{2} + 8\right) - \left(\frac{64}{6} - \frac{96}{4} + \frac{32}{2} + 4\right)$$

$$= \frac{4448}{12} - \frac{80}{12} = \frac{4368}{12} = 364.$$

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