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QUESTION 1

Express in scientific notation: 13.9

- A. 1.39×101
- B. 1.39×10^1
- C. 13.9×10^1
- D. 13.9×10^2

Correct Answer: B

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

QUESTION 2

Evaluate the following derivative:

$$\frac{d}{dx}(3x^3 - 2x^2)$$

- A. $3x^2 + 2x$ B. $3x^2 - 2x$ C. $9x^2 - 4x$ D. $9x^2 + 4x$

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

Correct Answer: C

The derivative of a polynomial is the sum of the derivatives of the terms of the polynomial, or:

$$\begin{aligned}\frac{d}{dx}(3x^3 - 2x^2) &= \frac{d}{dx}(3x^3) - \frac{d}{dx}(-2x^2) \\ &= \frac{d}{dx}(3x^3) - \frac{d}{dx}(2x^2) \\ &= 9x^2 - 4x.\end{aligned}$$



QUESTION 3

Evaluate the following derivative

$$\frac{d}{dx}(24x^3 - 9x^2 + 3x - 11) \text{ at } x = 3.$$

- A. 597
- B. 325
- C. 154
- D. 96

Correct Answer: A

QUESTION 4

What is the equation of a line that passes through the point (3, 1) and has a $-2/3$?

A. $y = -\frac{2}{3}x$ B. $y = -\frac{2}{3}x + 3$ C. $y = -\frac{2}{3}x - 3$ D. $y = \frac{2}{3}x - 3$

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

Correct Answer: C

You can use the information provided by the specific point and the value of the slope to derive the equation for the line:



$$m = \frac{y_2 - y_1}{x_2 - x_1}$$
$$-\frac{2}{3} = \frac{y_2 - (-1)}{x_2 - (-3)} = \frac{y_2 + 1}{x_2 + 3}$$

$$y_2 + 1 = -\frac{2}{3} \cdot (x_2 + 3)$$

$$y_2 + 1 = -\frac{2}{3}x_2 - \frac{2}{3}(3)$$

$$y_2 + 1 = -\frac{2}{3}x_2 - 2$$

$$y = -\frac{2}{3}x - 3$$

QUESTION 5

(

$$5.4 \times 10^7 \div (2.7 \times 10^3) =$$

A.

Option A

B.

Option B

C.

Option C

D.

Option D

A. -1.5×10^4

B. -2.0×10^4

C. -3.5×10^4

D. -5.0×10^4

Correct Answer: B

To divide the two numbers in scientific notation, you have:



$$-5.4 \times 10^7 \div 2.7 \times 10^3 = \frac{-5.4 \times 10^7}{2.7 \times 10^3} = -\frac{5.4}{2.7} \times \frac{10^7}{10^3} = -2.0 \times 10^4.$$

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