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QUESTION 1

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 2

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 3

A full-time employee works 40 hours during a five-day week. The percentage of a five-day week that the employee is at work is:

- A. 20%
- B. 33%
- C. 40%
- D. 50%

Correct Answer: B

QUESTION 4

Which line is perpendicular to the line $y + 3x = 8$?

- A. $y + \frac{1}{3}x = -5$ B. $y + \frac{1}{3}x = +5$ C. $y + 3x = -5$ D. $y - 3x = -5$

- A. Option A
- B. Option B



C. Option C

D. Option D

Correct Answer: B

QUESTION 5

The ratio of boys to girls in the graduating class of a school is 3:2. If there are a total of 430 students in the class, how many girls are in the graduating class?

A. 74

B. 86

C. 172

D. 215

Correct Answer: C

To find the total number of girls in the science class, we must first find the fraction of students in the class who are girls. For every set of 5 students, 2 students are girls, yielding a fraction of $\frac{2}{5}$. Thus, the total number of girls in the class is



$$\frac{2}{5} \times 430 = 172.$$



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