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QUESTION 1

What is the sum of the following polynomials? $5x + 3xy + 6y^2$, $9xy + 7y^2 + 4x$ and $8y^2 + 7x + 12xy$

- A. $12x + 15xy + 14y^2$
- B. $x + 9xy + 6y^2$
- C. $8x + 24xy + 7y^2$
- D. $5x + 12xy + 7y^2$

Correct Answer: C

QUESTION 2

What are the roots of the equation $x^2 - 7x + 18 = 0$?

- A. 4.5, 1
- B. 2, 4.5
- C. 3.5, 8
- D. 1, 4.5

Correct Answer: A

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 median of the data set?

- A. 80
- B. 83
- C. 85
- D. 86

Correct Answer: B

QUESTION 5

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:



$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

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

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

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

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

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

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