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QUESTION 1

Solve for x: $(4x - 1)^2 = 121$

- A. -3
- B. 4
- C. 3
- D. 6

Correct Answer: C

This equation can be solved by first taking the square root of both sides of the equation $(4x - 1)^2 = 121$ or

$$\sqrt{(4x - 1)^2} = \sqrt{121}$$
$$4x - 1 = 11$$

Solving for x yields $x = 3$.

QUESTION 2

Evaluate the following derivative:

$$\frac{d}{dx}(5x^6)$$

- A. $30x^5$ B. $\frac{30}{x^5}$ C. $\frac{15}{x^5}$ D. $15x^5$

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

Correct Answer: A

The derivative of this function can be evaluated by:



$$\frac{d}{dx}(5x^6) = 30x^5.$$

QUESTION 3

Upon rolling a pair of dice, what is the probability that the sum of the two numbers on the dice is either 7 or 12?

- A. 1/6
- B. 1/36
- C. 5/36
- D. 7/36

Correct Answer: D

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

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

A. $y = -\frac{1}{2}x + 2$

B. $y = -\frac{1}{2}x - 2$

C. $y = \frac{1}{2}x + 2$

D. $y = \frac{1}{2}x - 2$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

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