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QUESTION 1

Solve for x: x2 12 x=36

A. 2

B. 3

C. 4

D. 6

Correct Answer: D

The first thing to do in solving the equationx2 12x=36 forxis to rewrite the equation by adding 36 to both sides and then to express the equation in terms of factors: x2 12x+ 36 = 0 (x6) · (x 6) = 0 Solving the equation forxyieldsx= 6.

QUESTION 2

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

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

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

If ,

$$\sqrt[3]{x} = y^4$$

then what is x in terms of y?

A. x=y12

B. x=y7

C. x = y4

D. x=y

Correct Answer: A

QUESTION 4

What is the slope of a line that passes through the points (5, 2) and (1, 3)?

A. 1/3

B. -1/3

C. 3

D. 5

Correct Answer: A

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

If the first point (5 , 2) = (x1,y1) and the second point (8 , 3) = (x2,y2), then substituting these coordinate values into the definition for the slope yields

$$m = \frac{3-2}{8-5} = \frac{1}{3}.$$

QUESTION 5

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