PCAT-SECTION3 Q&As

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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?

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 bag of Skittles® contains 10 red, 9 yellow, 8 orange, 6 green, and 4 blue colored candies. What is the probability of randomly choosing an orange-colored candy from the bag?

A. 8/37

B. 37/8

C. 8/27

D. ¾

Correct Answer: A

The probability of selecting a single orange-colored candy from a bag of Skittles® requires 8 successful outcomes out of 37 possible outcomes. So the probability of selecting a single orange- colored candy is: p= 8/37

QUESTION 4

Solve for x: 4(2x + 20) +3(x 1) = 0

A. 11

B. 7

C. -7

D. 11

Correct Answer: C

This equation can be solved by simplifying each side of the equation, combining like terms, isolatingxon one side of the equation and then solving forx:

$$\begin{aligned} 4(2x+20)+3(x-1)&=0\\ 8x+80+3x-3&=0\\ 11x+77&=0\\ x=-\frac{77}{11}&=-7. \end{aligned}$$

QUESTION 5

Solve for x: 10 + 5x2 = 135

A. ±2

B. ±5

C. ±10

D. ±25

Correct Answer: B