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QUESTION 1

What are the roots of the quadratic equation 3x2 x 10 = 0?

$$\text{A.} \quad x=\sqrt{2}, \; -\frac{5}{3} \qquad \text{B.} \quad x=2, \; -\sqrt{\frac{5}{3}} \qquad \text{C.} \quad x=-2, \; \sqrt{\frac{5}{3}} \qquad \text{D.} \quad x=2, \; -\frac{5}{3}$$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 2

If and x/y = 8 and x=64, then what is the sum x + y?

A. 56

B. 64

C. 72

D. 81

Correct Answer: C

From the first equation, multiply both sides byyresulting in x= 8y.

Becausex= 64, you can write

64 = 8y

Y=8

Substituting the given information regardingxandyinto its sum yields:

x+y= 64 + 8 = 72.

QUESTION 3

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 4

What is the probability that two cards drawn from a deck of cards are face cards (king, queen, or jack) of any suit if the first card drawn is replaced before the second card is drawn?

A. 9/169

B. 1/16

C. 3/13

D. 1/26

Correct Answer: A

QUESTION 5

Evaluate the following derivative:

$$\frac{d}{dx}\left(6x^4 - 4x^3\right)$$

A. 24x3 12x2

B. 24x3 + 12x2

C. 24x3 12x2

D. 24x3 + 12x2

Correct Answer: C

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