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QUESTION 1

Evaluate the following indefinite integral: A. Option A

$$\int t^2 \left(\frac{5}{t} - \frac{t}{5} \right) dt$$

A. $\dfrac{5t^2}{2} + \dfrac{t^4}{20} + C$ B. $\dfrac{5t^2}{2} + \dfrac{t^4}{20} - C$ C. $-\dfrac{5t^2}{2} - \dfrac{t^4}{20} + C$ D. $-\dfrac{5t^2}{2} + \dfrac{t^4}{20} + C$

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 2

Find the roots of the quadratic equation x2 2x 1 = 0.

A. $x = 1 \pm \sqrt{2}$ B. $x = 1 \pm 2$ C. $x = \sqrt{2} \pm 1$ D. $x = 1 \pm \sqrt{3}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

The equation is in the form of a quadratic equation $ax^2 + bx + c = 0$, where a = 1, b=2, and c=1. To solve this

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-2) \pm \sqrt{(-2)^2 - 4(1)(-1)}}{2(1)} = \frac{2 \pm 2\sqrt{2}}{2} = 1 \pm \sqrt{2}.$$

problem, you use the quadratic formula or

QUESTION 3

What is the solution of the following system of equations? x+y=4 and 2x6y=3 A. Option A

$$\text{A.} \quad x = -\frac{27}{8}, y = \frac{5}{8} \quad \text{B.} \quad x = \frac{27}{8}, y = -\frac{5}{8} \quad \text{C.} \quad x = \frac{27}{8}, y = \frac{5}{8} \quad \text{D.} \quad x = \frac{8}{27}, y = \frac{8}{5}$$

B. Option B

C. Option C

D. Option D

Correct Answer: C

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

What is the average of the numbers 24, 53, 70, 89, 34, and 30?

A. 84

B. 39

C. 71

D. 50

Correct Answer: D

The average of a set of numbers is calculated by:

$$Avg = \frac{24 + 53 + 70 + 89 + 34 + 30}{6} = \frac{300}{6} = 50.$$

QUESTION 6

Solve for x: x3 64x = 0

A. x=± 8

B. x=± 6

C. x=± 4

D. x=± 2

Correct Answer: A

In order to solve the equationx3 64x= 0 forx, you can apply factor analysis and solve for x in each term:

$$\frac{x^3}{x} - \frac{64x}{x} = \frac{0}{x}$$

$$x^2 - 64 = 0$$

$$x = \pm 8.$$

QUESTION 7

Evaluate the following definite integral:

$$\int_{1}^{9} 3t^3 dt$$

A. 4920

B. 2560

C. 2179

D. 1659

Correct Answer: A

QUESTION 8

What is the slope of a line that passes through the points (0, 4) and (4, 0)?

A. 4

B. -1

C. 0

D. undefined

Correct Answer: B

The slope of a line that passes through the points (0, 4) and (4, 0) can be found by:

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - 4}{4 - 0} = -\frac{4}{4} = -1.$$

QUESTION 9

Given the equation,

$$\frac{56}{4x+8} = \frac{1}{8},$$

What is the value of x?

A. 64

B. 110

C. 164

D. 215

Correct Answer: B

$$\frac{56}{4x+8} = \frac{1}{8}\text{''}$$

, the goal is to isolate the unknown variablexon one side of the equation with all other terms on the

$$(4x+8) \cdot \frac{56}{4x+8} = \frac{1}{8} \cdot (4x+8)$$

$$56 = \frac{1}{8} \cdot (4x+8)$$

other side. You begin by multiplying both sides of the equation by 4x+ 8:

You then divide both sides by 1/8 which, in essence, means you multiply both sides of theequation

$$\frac{8}{1} \cdot 56 = \frac{1}{8} \cdot (4x+8) \cdot \frac{8}{1}$$

$$448 = (4x+8).$$

by 8/1 its reciprocal:

You then subtract 8 from both sides with the final step of dividing both sides by 4, giving you the desired

result.

$$448 - 8 = 4x$$

$$\frac{440}{4} = x$$

$$x = 110.$$

QUESTION 10

Evaluate the following derivative:

$$\frac{d}{dx}\left(25 - 7x^3\right) \text{ at } x = -2$$

A. 35

B. 84

C. -84

D. 120

Correct Answer: C

You first must calculate the derivative before you can evaluate the derivative at a given point.

$$\frac{d}{dx}\left(25 - 7x^3\right) = -21x^2.$$

The derivative can now be evaluated at x=2 by plugging in the value of 2 for x in the derivative or

$$\frac{d}{dx}\left(25 - 7x^3\right)\Big|_{x=-2} = -21\cdot(-2)^2 = -21\cdot4 = -84.$$

QUESTION 11

Evaluate the following derivative: A. Option A

$$\frac{d}{dx}\left(\frac{15}{3x^8}\right)$$

A. $-\dfrac{40}{x^9}$ B. $\dfrac{40}{x^9}$ C. $-\dfrac{40}{x^{-9}}$ D. $\dfrac{40}{x^{-9}}$

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 12

Which line is perpendicular to the line y + 3x = 8?

A. $y + \dfrac{1}{3}x = -5$ B. $y + \dfrac{1}{3}x = +5$ C. $y + 3x = -5$ D. $y - 3x = -5$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 13

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 14

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

A. $x = \sqrt{2}, -\dfrac{5}{3}$ B. $x = 2, -\sqrt{\dfrac{5}{3}}$ C. $x = -2, \sqrt{\dfrac{5}{3}}$ D. $x = 2, -\dfrac{5}{3}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 15

A full-time employee works 40 hours during a five-day week. The percentage of a five-day week that the employee is at work is:

A. 20%

B. 33%

C. 40%

D. 50%

Correct Answer: B

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