



Free Questions for IFoA_CAA_M0 by ebraindumps

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Question 1

Question Type: MultipleChoice

$v = f(x, y, z)$ is a real valued function of 3 variables.

Express the partial derivative of v with respect to z in standard mathematical notation.

Options:

A- Option A

$$\frac{\partial v}{\partial xy}$$

B- Option B

$$\frac{\partial v}{\partial xy}$$

C- Option C

$$\frac{\partial v}{\partial xy}$$

D- Option D

$$\frac{\partial v}{\partial xy}$$

Answer:

B

Question 2

Question Type: MultipleChoice

Identify the meaning of: $|x| > 5$

Options:

A- x is greater than 5.

B- x is greater than or equal to 5.

C- x is greater than 5 or x is less than -5.

D- x is greater than or equal to 5, or x is less than or equal to -5.

Answer:

C

Question 3

Question Type: MultipleChoice

A weekly pet insurance premium is given by a solution of the following equation:

$$4x^2 - 11x - 3 = 0$$

Calculate the premium.

Options:

A- -1.00

B- -0.25

C- 0.75

D- 3.00

Answer:

D

Question 4

Question Type: MultipleChoice

Determine which of the following is the Maclaurin expansion (up to the second order term) of: e^{2x}

Options:

A- Option A

$$1 + 2x + 2x^2$$

B- Option B

$$1 + 2x + 2x^2$$

C- Option C

$$1 + 2x + 2x^2$$

D- Option D

$$1 + 2x + 2x^2$$

Answer:

D

Question 5

Question Type: MultipleChoice

In a small island nation, local sea vessels are identified using "a letter and 4 digits" classification system. The "letter" can be any of the 26 letters in the English alphabet, A to Z, while the "digit" can be any number from 0 to 9. E.g: Z9835.

Calculate the probability of a sea vessel having an identification ending in "007".

Options:

A- 0.001

B- 0.002

C- 0.003

D- 0.504

Answer:

A

Question 6

Question Type: MultipleChoice

The first term of an arithmetic sequence is 12 and the ninth term is 68.

Calculate the sum of the first 18 terms.

Options:

A- 1,165

B- 1,287

C- 1,350

D- 1,413

Answer:

B

Question 7

Question Type: MultipleChoice

A and B are the stationary points of $f(x)$.

$$f(x) = 2x^3 - x^2 - 8x + 8$$

$$A = (-1, 13)$$

$$B = (4/3, 8/27)$$

Determine whether each stationary point is a maximum, minimum or point of inflexion.

Options:

A- A is a maximum B is a minimum

B- A is a maximum B is a point of inflexion

C- A is a minimum B is a maximum

D- A is a point of inflexion B is a minimum

Answer:

A

Question 8

Question Type: MultipleChoice

Calculate the indefinite integral:

$$\int \frac{x^2}{x^3 + 4} dx$$

Options:

A- Option A

$$\frac{8x - x^4}{(x^3 + 4)^2} + c$$

B- Option B

$$\frac{8x - x^4}{(x^3 + 4)^2} + c$$

C- Option C

$$\frac{8x - x^4}{(x^3 + 4)^2} + c$$

D- Option D

$$\frac{8x - x^4}{(x^3 + 4)^2} + c$$

Answer:

B

Question 9

Question Type: MultipleChoice

Calculate the determinant of the product of the matrices given below:

$$\begin{pmatrix} 4 & 2 \\ 1 & 3 \end{pmatrix} \begin{pmatrix} -1 & 9 \\ 5 & -1 \end{pmatrix}$$

Options:

A- -0.00227

B- -60

C- -78

D- -440

Answer:

D

Question 10

Question Type: MultipleChoice

The variable s can take values between 2 and 6.

Identify which of the inequalities shown can be satisfied by at least one value of s .

Options:

A- $s + 5 < 6$

B- $s + 9 < 6$

C- $s - 6 > 2$

D- $s - 2 > 2$

Answer:

D

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