



**Free Questions for IFoA\_CAA\_M0 by certsdeals**

**Shared by Osborne on 24-05-2024**

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## Question 1

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**Question Type:** MultipleChoice

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Using simple iteration, based on trial and improvement, the cubic equation below can be solved:

$$2x^3 + 5x^2 + 7x - 12 = 0$$

Solve for x to 6 decimal places.

**Options:**

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**A-** 0.909000

**B-** 0.909165

**C-** 0.909502

**D-** 1.000000

**Answer:**

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B

## Question 2

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**Question Type: MultipleChoice**

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If

$$f(x, y) = \frac{y^3 - 3x}{x^2}$$

Calculate the partial derivative

**Options:**

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**A-** Option A

$$\frac{-2y^3 + 6}{x^3}$$

**B-** Option B

$$\frac{-2y^3 + 6}{x^3}$$

**C-** Option C

$$\frac{-2y^3 + 6}{x^3}$$

**D-** Option D

$$\frac{-2y^3 + 6}{x^3}$$

**Answer:**

---

C

## Question 3

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**Question Type:** MultipleChoice

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A recurrence relation is given by:  $U_n = 2U_{n-1} + 3$

If  $U_0 = 0$ , calculate  $U_2 =$

**Options:**

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A- 3

B- 9

C- 13

D- 21

**Answer:**

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B

## Question 4

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**Question Type:** MultipleChoice

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A geometric series is given by

$$S_{\infty} = \sum_{i=1}^{\infty} 5x^{i-1}$$

Identify the values of x for which the series converges.

**Options:**

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A-  $-1 \times 1$

B-  $-1 < x < 1$

C-  $-5 < x < 5$

D-  $-5 \times 5$

**Answer:**

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B

## Question 5

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**Question Type:** MultipleChoice

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A boy is asked to estimate the height of his sister. He estimates that she is 1.60 metres tall. He then measures his sister and finds that her true height is 1.40 metres.

Identify the absolute error of his estimate of her height.

**Options:**

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A- 0.2 metres

**B-** 0.2 metres

**C-** 12.5%

**D-** 0.125

**Answer:**

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B

## Question 6

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**Question Type:** MultipleChoice

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An individual purchases a share in a company at a price of 45. Six months later he sells the share for 39.

Calculate the percentage change in the value of the share over the six month period, correct to one decimal place.

**Options:**

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**A-** -15.4%

**B-** -13.3%

C- 13.3%

D- 86.7%

**Answer:**

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B

## Question 7

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**Question Type:** MultipleChoice

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Calculate the second order derivative of  $y$  with respect to  $x$ , where:

$$y = 3x^2 + ex$$

**Options:**

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A-  $6 + ex$

B-  $6x + ex$

C-  $6x + ex - 1$



**D-**  $6 + (x - 1)e^{x-2}$

**Answer:**

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A

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