

# **IFoA**

## **IFOA\_CAA\_M0 Exam**

**IFoA Module 0 - Entry Exam Exam**

**Questions & Answers**

**Demo**

## Version: 7.0

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### Question: 1

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Determine which of the statements is true about the root(s) of the following equation:

$$x^2 + \sqrt{2}x - 4 = 0$$

- A. There is only one real root which takes a positive value.
- B. There is only one real root which takes a negative value.
- C. There are two real roots,  $r_1$  and  $r_2$ , where  $r_1$  is positive and:  $r_1 = -0.5 r_2$
- D. There are two real roots,  $r_1$  and  $r_2$ , where  $r_1$  is positive and:  $r_1 = -2 r_2$

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**Answer: C**

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### Question: 2

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Solve the following equation for x:

$$12x + 10 = 3x - 8$$

- A.  $x = -9/2$
- B.  $x = -2$
- C.  $x = 2$
- D.  $x = 9/2$

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**Answer: B**

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### Question: 3

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When differentiating the product of two factors,  $u$  and  $v$ , the Product Rule can be used.

State the Product Rule.

A)

$$d(uv) = u du + v dv$$

B)

$$d(uv) = \frac{vu' - uv'}{v}$$

C)

$$d(uv) = u dv + v du$$

D)

$$d(uv) = u dv + v du$$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

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**Answer: D**

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**Question: 4**

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A function  $f(x)$  is known for two values:

$$f(2) = 8 \text{ and } f(5) = 14.$$

Using linear interpolation estimate  $f(3)$ .

A)

$$9 \frac{1}{3}$$

B)

$$10$$

C)

$$11$$

D)

$$12$$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

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**Answer: B**

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**Question: 5**

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Determine which of the options is equal to  $\log(3) - 2\log(x+1)$ .

A)

$$\log(2x + 1)$$

B)

$$\log\left(\frac{3}{2x + 1}\right)$$

C)

$$\log\left(3(x + 1)^2\right)$$

D)

$$\log \left( \frac{3}{(x+1)^2} \right)$$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

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**Answer: D**

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