



Free Questions for 8002 by certscare

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Question 1

Question Type: MultipleChoice

A 2-year bond has a yield of 5% and an annual coupon of 5%. What is the Modified Duration of the bond?

Options:

- A- 2
- B- 1.95
- C- 1.86
- D- 1.75

Answer:

C

Question 2

Question Type: MultipleChoice

A 2-year bond has a yield of 5% and an annual coupon of 5%. What is the Macaulay Duration of the bond?

Options:

A- 2

B- 1.95

C- 1.86

D- 1.75

Answer:

B

Question 3

Question Type: MultipleChoice

Evaluate the derivative of $\exp(x^2 + 2x + 1)$ at the point $x = -1$

Options:

A- 0.5

B- 0

C- 1

D- 2

Answer:

B

Question 4

Question Type: MultipleChoice

Evaluate the derivative of $\ln(1+x^2)$ at the point $x = 1$

Options:

A- 0.5

B- 0

C- 1

D- 2

Answer:

C

Question 5

Question Type: MultipleChoice

An indefinite integral of a polynomial function is

Options:

A- always positive

B- always increasing

C- always less than the function itself

D- none of the above

Answer:

D

Question 6

Question Type: MultipleChoice

You work for a brokerage firm that charges its client x per share. The volume of trade of a client of type A depends on the per share commission in the following manner. If the commission is x , the client of type A will trade $e-ax$ shares on average each week. What is the optimal commission x that maximizes the income from client A, noting that a is greater than zero?

Options:

A- 1

B- a

C- $\frac{1}{2a}$

D- $\frac{1}{a^2}$

Answer:

C

Question 7

Question Type: MultipleChoice

What is the maximum value of the function $F(x, y) = x^2 + y^2$ in the domain defined by inequalities $x \leq 1$, $y \geq -2$, $y - x \leq 3$?

Options:

A- 29

B- -25

C- 1

D- 17

Answer:

A

Question 8

Question Type: MultipleChoice

For the function $f(x) = 3x - x^3$ which of the following is true?

Options:

- A- $x = 0$ is a minimum
- B- $x = -3$ is a maximum
- C- $x = 2$ is a maximum
- D- None of these

Answer:

D

Question 9

Question Type: MultipleChoice

What is the maximum value for $f(x) = 8 - (x+3)(x-3)$?

Options:

A- 8

B- -1

C- 17

D- None of these

Answer:

C

Question 10

Question Type: MultipleChoice

At what point x does the function $f(x) = x^3 - 4x^2 + 1$ have a local minimum?

Options:

A- -0.666666667

B- 0

C- 2.66667

D- 2

Answer:

C

Question 11

Question Type: MultipleChoice

Find the first-order Taylor approximation $p(x)$ for the function: at the point .

Options:

A- $-x$

B- $-x+1$

C- $x-1$

D- $x+1$

Answer:

B

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