



Free Questions for 8002 by certsinside

Shared by Sandoval on 15-04-2024

For More Free Questions and Preparation Resources

Check the Links on Last Page

Question 1

Question Type: MultipleChoice

I have a portfolio of two stocks. The weights are 60% and 40% respectively, the volatilities are both 20%, while the correlation of returns is 50%. The volatility of my portfolio is

Options:

A- 16%

B- 17.4%

C- 20%

D- 24.4%

Answer:

B

Question 2

Question Type: MultipleChoice

The correlation between two asset returns is 1. What is the smallest eigenvalue of their correlation matrix?

Options:

A- 1

B- 0.5

C- 0

D- None of the above

Answer:

C

Question 3

Question Type: MultipleChoice

The correlation between two asset returns is 0.5. What is the largest eigenvalue of their correlation matrix?

Options:

A- 0.5

B- 1

C- 1.5

D- None of the above

Answer:

C

Question 4

Question Type: MultipleChoice

Stress testing portfolios requires changing the asset volatilities and correlations to extreme values. Which of the following would lead to a non positive definite covariance matrix?

Options:

A- Changing the volatilities to be greater than 100%

- B- Changing all the correlations to be unity
- C- Changing all the correlations to be zero
- D- All of the above

Answer:

B

Question 5

Question Type: MultipleChoice

Which of the following statements is true for symmetric positive definite matrices?

Options:

- A- Its eigenvalues are all positive
- B- One of its eigenvalues equals 0
- C- If a is its eigenvalue, then $-a$ is also its eigenvalue
- D- If a is its eigenvalue, then a^2 is also its eigenvalue

Answer:

A

Question 6

Question Type: MultipleChoice

Two vectors are orthogonal when:

Options:

- A- one is a scalar multiple of the other
- B- their components are linearly dependent
- C- their determinant is zero
- D- their scalar product (sum product) is zero

Answer:

D

Question 7

Question Type: MultipleChoice

Let A be a square matrix and denote its determinant by x . Then the determinant of A transposed is:

Options:

A- x^{-1}

B- x

C- $\ln(x)$

D- $-x$

Answer:

B

Question 8

Question Type: MultipleChoice

Calculate the determinant of the following matrix:

Options:

A- 4.25

B- -4.25

C- 4

D- 2

Answer:

D

Question 9

Question Type: MultipleChoice

What is the angle between the following two three dimensional vectors: $a=(1,2,3)$, $b=(-4,2,0)$?

Options:

A- 90 degrees

B- 180 degrees

C- 57 degrees

D- 45 degrees

Answer:

A

Question 10

Question Type: MultipleChoice

The determinant of a matrix X is equal 2. Which of the following statements is true?

Options:

A- $\det(2X) =$

B- $\det(2X) = 2 \det(X)$

C- $\det(2X) = \det(X)^2$

D- $\det(2X) = 4 \det(X)$

Answer:

D

To Get Premium Files for 8002 Visit

<https://www.p2pexams.com/products/8002>

For More Free Questions Visit

<https://www.p2pexams.com/prmia/pdf/8002>

