



8002 Exam

Exam II: Mathematical Foundations of Risk Measurement

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Question: 1

For a quadratic equation, which of the following is FALSE?

- A. If the discriminant is negative, there are no real solutions
- B. If the discriminant is zero, there is only one solution
- C. If the discriminant is negative there are two different real solutions
- D. If the discriminant is positive there are two different real solutions

Answer: C

Question: 2

The natural logarithm of x is:

A. the inverse function of exp(x)B. log(e)C. always greater than x, for x>0D. 46

Answer: A

Question: 3

When a number is written with a fraction as an exponent, such as , which of the following is the correct computation?

A. Take the square-root of 75 and raise it to the 5th power

- B. Divide 75 by 2, then raise it to the 5th power
- C. Multiply 75 by 2.5
- D. Square 75, then take the fifth root of it

Answer: A

Question: 4

You invest \$2m in a bank savings account with a constant interest rate of 5% p.a. What is the value of the investment in 2 years time if interest is compounded quarterly?

A. \$2,208,972 B. \$2,210,342 C. \$2.205,000 D. None of them

Answer: A

Question: 5

Solve the simultaneous linear equations: x + 2y - 2 = 0 and y - 3x = 8

A. x = 1, y = 0.5 B. x = -2, y = 2 C. x = 2, y = 0 D. None of the above

Answer: B

Question: 6

Find the roots, if they exist in the real numbers, of the quadratic equation

A. 4 and -2 B. -4 and 2 C. 1 and 0 D. No real roots

Answer: D

Question: 7

The sum of the infinite series 1+1/2+1/3+1/4+1/5+... equals:

A. 12

B. Infinity

C. 128

D. 20

Answer: B

Question: 8

Which of the following properties is exhibited by multiplication, but not by addition?

A. associativity

B. commutativity

C. distributivity

D. invertibility

Answer: C

Question: 9

Identify the type and common element (that is, common ratio or common difference) of the following sequence: 6, 12, 24

A. arithmetic sequence, common difference 2

- B. arithmetic sequence, common ratio 2
- C. geometric sequence, common ratio 2
- D. geometric sequence, common ratio 3

Answer: C

Question: 10

What is the sum of the first 20 terms of this sequence: 3, 5, 9, 17, 33, 65,...?

A. 1 048 574
B. 1 048 595
C. 2 097 170
D. 2 097 172

Answer: C

Question: 11

What is the simplest form of this expression: log2(165/2)

A. 10 B. 32 C. 5/2 + log2(16) D. log2 (5/2) + log2(16)

Answer: A

Question: 12

For each of the following functions, indicate whether its graph is concave or convex:

Y = 7x2 + 3x + 9 $Y = 6 \ln(3x)$ $Y = \exp(-4x)$

A. concave, concave, concave

- B. concave, convex, convex
- C. convex, concave, concave
- D. convex, convex, concave

Answer: C

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