PRMIA

8007

Exam II: Mathematical Foundations of Risk Measurement - 2015 Edition

Latest Version: 6.0

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>0
D. 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

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