

PRMIA

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>0 D. 46	
	Answer: A
Question: 3	
When a number is written with a fraction as an exponent, such as , correct computation?	which of the following is the
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 the investment in 2 years time if interest is compounded quarterly?	of 5% p.a. What is the value of
A. \$2,208,972 B. \$2,210,342 C. \$2.205,000 D. None of them	
	Answer: A

Question: 9

Question: 5	
Solve the simultaneous linear equations: $x + 2y - 2 = 0$ and $y - 3$	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
O(
Question: 6	
Find the roots, if they exist in the real numbers, of the quadrat	ic equation
A. 4 and -2	
B4 and 2	
C. 1 and 0	
D. No real roots	
	Answer: D
0	
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 multiplicatio	n, but not by addition?
A. associativity	
B. commutativity	
C. distributivity	
D. invertibility	
	A
	Answer: C

Identify the type and common element (that is, common ratio or following sequence: 6, 12, 24	common difference) of the
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	5,?
A. 1 048 574	
B. 1 048 595	
C. 2 097 170	
D. 2 097 172	
	Answer: C
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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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