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# 8002

## PRMIA

### *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  $a^{b/c}$ , 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  $1 + 1/2 + 1/3 + 1/4 + 1/5 + \dots$  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:  $\log_2(165/2)$

- A. 10
- B. 32
- C.  $5/2 + \log_2(16)$
- D.  $\log_2(5/2) + \log_2(16)$

**Answer:** A

**QUESTION:** 12

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

$$Y = 7x^2 + 3x + 9$$

$$Y = 6 \ln(3x)$$

$$Y = \exp(-4x)$$

A. concave, concave, concave

B. concave, convex, convex

C. convex, concave, concave

D. convex, convex, concave

**Answer:** C

**QUESTION:** 13

You invest \$100 000 for 3 years at a continuously compounded rate of 3%. At the end of 3 years, you redeem the investment. Taxes of 22% are applied at the time of redemption. What is your approximate after-tax profit from the investment, rounded to \$10?

A. \$9420

B. \$7350

C. \$7230

D. \$7100

**Answer:** B

**QUESTION:** 14

Which of the provided answers solves this system of equations?

$$2y - 3x = 3y + x$$

$$y^2 + x^2 = 68$$

A.  $x = 1$ ;  $y = \text{square root of } 67$

B.  $x = 2$ ;  $y = 8$

C.  $x = 2$ ;  $y = -8$

D.  $x = -2$ ;  $y = -8$



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