

BMath Bachelor of Mathematics Practice Test Questions and Answers

1. What is $\int x e^x dx$?

- A) $x e^x + C$
- B) $(x - 1)e^x + C$
- C) $x^2 e^x / 2 + C$
- D) $e^x / x + C$

2. What is the rank of a matrix?

- A) The number of rows
- B) The number of non-zero entries
- C) The dimension of its column space
- D) Its largest eigenvalue

3. The trace of a matrix is equal to:

- A) The product of its eigenvalues
- B) The sum of its diagonal entries
- C) Its largest eigenvalue
- D) The sum of all its entries

4. The geometric distribution models:

- A) The number of successes in n trials
- B) The number of trials until the first success
- C) The time between events in a Poisson process
- D) The total distance traveled in a random walk

Answers: 1-B 2-C 3-B 4-B

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