

Math Lab Tutor Application Test Review

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We don't expect you to have a complete or perfect understanding of these concepts. A basic understanding of each principle will suffice.

- Conditional probability
- Bayes' theorem
- Binomial probability
- Normal distribution (z-score)
- Linear functions (lines and slopes)
 - Echelon method
 - Gauss-Jordan Method
- Matrix operations (addition, subtraction, multiplication)
- Matrix inverses
- Input-Output models (open and closed economy)
- Linear programming (maximizing and minimizing) using graphing methods
- Linear programming (maximizing and minimizing) using simplex method
 - understanding pivots, slack variables, and duality
- Transitions matrices
- Markov chains
 - understand absorbing Markov chains
- Equilibrium vector for transition matrices (also called long range probability)