MATH 3406 Advanced Linear Algebra: Cramer's rule

1. What is Cramer's rule?

A. A method for solving linear equations
B. A method for solving systems of linear equations
C. A method for finding the inverse of a matrix
D. A method for determinants of a matrix

2. What is required for Cramer's rule to be used?

A. That the system of linear equations have a unique solution
B. That the system of linear equations be consistent
C. That the system of linear equations be independent
D. That the system of linear equations be invertible

3. What does Cramer's rule do?

A. It provides a way to solve linear equations
B. It provides a way to solve systems of linear equations
C. It provides a way to find the inverse of a matrix
D. It provides a way to calculate determinants of a matrix

4. How is Cramer's rule used?

A. By solving a system of linear equations
B. By calculating the inverse of a matrix
C. By calculating the determinant of a matrix
D. All of the above

5. What is an advantage of Cramer's rule?

A. It is easy to use
B. It is less computationally intensive
C. It can be used for systems of linear equations with any number of variables
D. All of the above

Answer Key: 1-B, 2-A, 3-D, 4-D, 5-D