Study Information for Quiz 4

Quiz 4 is on Sections 7.2 – 7.7. There are 14 questions total (one question per each check mark listed below). You will have 1 hour and 15 minutes to complete the quiz.

**Section 7.2: Solution of Linear Systems in Three Variables**

You should be able to

* Solve linear systems in three variables.
* Solve applications involving linear systems in three variables.

**Section 7.3: Solution of Linear Systems by Row Transformations**

You should be able to

* Use back-substitution to solve systems represented by augmented matrices.
* Solve systems using row operations on augmented matrices.

**Section 7.4: Matrix Properties and Operations**

You should be able to

* Add, subtract, and perform scalar multiplication with matrices.
* Multiply matrices.

**Section 7.5: Determinants and Cramer’s Rule**

You should be able to

* Calculate the determinants of 2 by 2 matrices.
* Calculate the determinants of 3 by 3 matrices.
* Solve determinant equations.

**Section 7.6: Solution of Linear Systems by Matrix Inverses**

You should be able to

* Find inverses of matrices.
* Solve systems of equations using inverse matrices.
* Solve applications involving inverse matrices.

**Section 7.7: Systems of Inequalities and Linear Programming**

You should be able to

* Graph linear and nonlinear inequalities.
* Graph solutions of systems of inequalities.