Concepts that You Should Understand for the Second Midterm:

User-Defined functions

A linear equation

A system (of linear equations)

Augmented matrix (of a system)

(Row) Echelon Form

Reduced (row) echelon form

Pivots

Pivot columns

Pivot variables

Free variables

Consistent/Inconsistent system

Unique solution

Infinite number of solutions

Parametric vector form

Linear Independence (of a set of vectors)

Span (of a set of vectors)

Trivial solution

Linear transformation

Linearity properties

Standard matrix (of a linear transformation)

Domain

Codomain

Range

Onto

One-to-one

Matrix multiplication

Invertible matrix

Singular matrix

Inverse (of an invertible matrix)

Markov chains