## Chapter 6

## **Vector Spaces**

- 6.1 Vector Spaces and Subspaces
- 6.2 Linear Independence, Basis, and Dimension
- 6.3 Change of Basis
- 6.4 Linear Transformation
- 6.5 The Kernel and Range of a Linear Transformation
- 6.6 The Matrix of a Linear Transformation
- 6.7 Applications