**ENGR 2011: Engineering Analysis and Applications**

**Homework No. 13: Orthogonality, Eigenvalues and Complex Matrices**

**Goal:** Demonstrate that you understand the basic properties of a vector space and a linear transformation.

**Textbook Problems:** 8.1.1, 8.2.1, 8.2.5(a-c), 8.3.1, 8.4.1, 8.5.2, 8.6.9, 8.7.1, 8.7.5

**Computer Problems:** Use Python as necessary to confirm the above results.