**ENGR 2011: Engineering Analysis and Applications**

**Homework No. 9: Crossproducts, Linear Transformations and Computer Graphics**

**Goal:** Demonstrate that you understand how to solve systems of differential equations both analytically and numerically.

**Textbook Problems:**  4.3.4, 4.3.16, 4.4.1, 4.4.3(a-c), 4.5.1, 4.5.4

**Computer Problems:**

Using Python to verify 4.3.4 is easy. For 4.3.16, use some numeric examples in Python to show these relations hold. For 4.4.1, you can demonstrate your results using numeric examples. For 4.4.3, 4.5.1 and 4.5.4, use your previously developed code to demonstrate that your solution is correct.