This assignment is in two parts. The answers to questions in Part I are generally in the books. It is advisable to make every effort to solve the problem before consulting the answer. Page numbers are to the Text, *Introduction to Linear Algebra, 5th edition*, by Johnson, Riess, and Arnold and the Reference, *Linear Algebra with Maple®*, by Bauldry, Evans and Johnson.

**Part I**

1. (a) Text: p. 13, #31
   (b) Complete the solution using the system and the augmented matrix as in Example 7, beginning on p.10.

2. (MAPLE) Reference: p. 11, #3

3. Text: p. 27, #43

4. (MAPLE) Text: p.28, #57

**Part II**

Section 1.1

5. Text: p. 105, #1

Section 1.2

6. Find a cubic polynomial $p(t) = at^3 + bt^2 + ct + d$, that satisfies the conditions $p(1) = 3$, $p'(1) = 4$, $p(2) = 15$, $p'(2) = 22$.

Section 1.3

7. Text: p.37, #4

8. (MAPLE) Text: p.38, #28