Advanced Mathematics 2200

Unit 8: Systems of Equations

Text: Pre – Calculus 11   **Chapter 8**

By the end of the unit, it is expected that students will:

Outcomes	Text Book
1. **Explain the meaning of the points of intersection of a system of linear-quadratic or quadratic-quadratic equations.**	**Section 8.1 pp. 424-439**
2. **Explain, using examples, why a system of linear-quadratic or quadratic-quadratic equations may have zero, one, two or an infinite number of solutions.**	
3. **Determine and verify the solution of a system of linear-quadratic or quadratic-quadratic equations graphically, with and without technology.**	
4. **Determine and verify the solution of a system of linear-quadratic or quadratic-quadratic equations algebraically.**	**Section 8.2 pp. 440-456**
5. **Model a situation, using a system of linear-quadratic or quadratic-quadratic equations.**	
6. **Relate a system of linear-quadratic or quadratic-quadratic equations to the context of a given problem.**	
7. **Solve a problem that involves a system of linear-quadratic or quadratic-quadratic equations, and explain the strategy used.**	