## Unit 9: Linear and Quadratic Inequalities

Text: Pre - Calculus 11
By the end of the unit, it is expected that students will:

| Outcomes | Text Book |
| :---: | :---: |
|  | Explain, using examples, how test points can be used to determine the <br> solution region that satisfies a linear inequality. |
| Section 9.1 |  |
| pp. 464-475 |  |

2. Explain, using examples, when a solid or broken line should be used in the solution for a linear inequality.
3. Sketch, with or without technology, the graph of a linear inequality.
4. Solve a problem that involves a linear inequality.
5. Determine the solution of a quadratic inequality in one variable, using strategies such as case analysis, graphing, roots and test points, or sign analysis; and explain the strategy used.
6. Represent and solve a problem that involves a quadratic inequality in one variable.
7. Interpret the solution to a problem that involves a quadratic inequality in one variable
8. Explain, using examples, how test points can be used to determine the

Section 9.3
2pp. 476-487 solution region that satisfies a quadratic inequality.

Section 9.3
pp. 488-500
9. Explain, using examples, when a solid or broken line should be used in the solution for a quadratic inequality.
10. Sketch, with or without technology, the graph of a quadratic inequality.
11. Solve a problem that involves a quadratic inequality.

