**Pre-Calculus Mathematics 11 Spring 2023**

**Teacher: Mr. Schroeder**

**Resource: Pre-Calculus 11, McGraw-Hill Ryerson, among others**

Course Content Overview:

*Chapter 3 – Quadratic Functions*

3.1 Investigating Quadratic Functions in Vertex Form

3.2 Investigating Quadratic Functions in Standard Form

3.3 Completing the Square

*Chapter 4 – Quadratic Equations*

4.1 Graphical Solutions of Quadratic Equations

4.2 Factoring Quadratic Equations

4.3 Solving Quadratic Equations by Completing the Square

4.4 The Quadratic Formula

*Chapter 8 – Systems of Equations*

8.1 Solving Systems of Equations Graphically

8.2 Solving Systems of Equations Algebraically

*Chapter 9 – Linear and Quadratic Inequalities*

9.1 Linear Inequalities in Two Variables

9.2 Quadratic Inequalities in One Variable

9.3 Quadratic Inequalities in Two Variables

*Chapter 5 –Radical Expressions and Equations*

5.1 Working with Radicals

5.2 Multiplying and Dividing Radical Expressions

5.3 Radical Equations

*Chapter 6 – Rational Expressions and Equations*

6.1 Rational Expressions

6.2 Multiplying and Dividing Rational Expressions

6.3 Adding and Subtracting Rational Expressions

6.4 Rational Equations

*Chapter 2 – Trigonometry*

2.1 Angles in Standard Position

2.2 Trigonometric Ratios of Any Angle

2.3 The Sine Law

2.4 The Cosine Law

*Chapter 8 – Finances: Investments and Loans*

Investments and Loans

Effective Interest Rates and Annuities

Stocks and Bonds

Instalment Loans

Canadian Mortgages

Final Exam: June