**PRECALCULUS MATH 11 – FINAL REVIEW**

**CHAPTER 1 – SEQUENCES AND SERIES (formulas)**

Arithmetic sequence

Arithmetic series

Geometric sequence

Geometric series , r1

Infinite geometric series , r between -1 and 1

**CHAPTER 2 – ABSOLUTE VALUES AND RADICALS**

Absolute value – definition

Simplify radical expressions

Add/subtract/mult/divide radical expressions

Solve radical equations isolate rad, square both sides, solve for x

**CHAPTER 3 – SOLVING QUADRATIC EQUATIONS**

Factor polynomial expressions – GCF, diff of squares, trinomials

Solve by – graphing Solving means finding the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-factoring

-square root principle

-quad formula

**CHAPTER 4 – ANALYZING QUADRATIC FUNCTIONS**

Properties of – vertex, max/min. axis of sym, x/y intercepts, domain, range

Transform

a x-p p q

Equivalent forms – complete the square

Problem solve – p320ex1

**CHAPTER 5 – GRAPHING INEQUALITIES & SYSTEMS OF EQUATIONS**

Solve & graph linear inequalities – 1 or 2 variables

Quadratic inequalities – graphing

Systems of equations find point(s) of intersection

**CHAPTER 6 – TRIGONOMETRY**

Angles in standard position

Sine law

Cosine law

**CHAPTER 7 – RATIONAL EXPRESSION AND EQUATIONS**

Equivalent rational expressions – simplify expressions, NON-PERMISSIBLE values

Add/subtract/mult/divide rational expressions

Solve rational equations

**CHAPTER 8 – ABSOLUTE VALUE AND RECIPROCAL FUNCTIONS**

AV function

Solve AV equations

Reciprocal of linear and quadratic functions – ASYMPTOTES!!