**Grading**

Each page of your review book **must** include:

* A CLEAR and DETAILED definition of the concept
* Some form of a visual (whether that be a formula, graph, or sketch)
* At least ONE Example Problem
* At least ONE Practice Problem. The Practice Problem must be completed.

\*Please include a cover page with: Name, Block Number, and Title of “N.C. Final Exam Review Book”\*

**TABLE OF CONTENTS**

1. **Unit 1: Polynomials**
2. Add, Subtract, & Multiply Polynomials
3. Factoring Binomials and Trinomials
4. Factor by Grouping
5. Solve by Factoring
6. Long Division
7. Synthetic Division
8. Remainder Theorem
9. Multiplying & Dividing Rationals
10. Adding & Subtracting Rationals
11. Solving Rationals
12. **Unit 2: Quadratics**

1 Simplifying Radicals & Complex Numbers

2 Multiplying & Dividing Radicals

3 Quadratic Formula

4 Discriminant

5 Solve by Completing the Square

6 Vertex Form of a Quadratic

7 Quadratic Real World Application

8 Focus & Directrix

9 Equation of a Circle

10 Application of Equation of a Circle

1. **Unit 3: Trigonometry**

1 Convert Radians & Degrees

2 Arc Length & Sector Area

3 Unit Circle

4 Trig Identities Using the Unit Circle

5 Pythagorean Identities

1. **Unit 4: Geometry**

1 Circle Segment Theorems

2 Circle Angles Theorems

3 Properties of Triangles

4 Properties of Parallelograms

5 Congruence Theorems

6 Similar Triangles Proofs, and Solving for the missing side lengths

7 Congruence Proofs

8 Proofs involving CPCTC

9 Proofs involving similarity

1. **Unit 5: Logarithms and Exponents**
2. Properties of Exponents
3. Properties of Logs
4. Natural Logs
5. Log Equations
6. Exponential Growth and Decay
7. **Unit 6: Probability & Statistics**

1 Arithmetic Sequence

2 Geometric Sequence

3 Arithmetic Series

4 Geometric Series

1. Sampling Methods
2. Standard Deviation
3. Normal Curve
4. Z-Score
5. Unit 7: Functions

1 Inverse Functions

2 Domain & Range

3 Horizontal & Vertical Asymptotes

4 Piecewise Functions

To log on to Online Textbooks, visit www.pearsonsuccessnet.com

**Username:** CougarPride2015  **Password:** vance2015