Unit 4 Test Topics

- 1. Multiplying Polynomials
- 2. Factoring Polynomials
 - a. GCF
 - b. Magic X
 - c. Grouping
 - d. D.O.T.S
 - e. Sum and Difference of Cubes
- 3. Long Division of Polynomials
- 4. Synthetic Division of Polynomials
- 5. Evaluating polynomials using synthetic division
- 6. Even and Odd Functions
- 7. Characteristics of Polynomials
 - a. Absolute min/max
 - b. Local min/max
 - c. End Behavior
 - d. f(x) > 0, f(x) < 0
 - e. f(x) increasing and decreasing
- 8. Creating an equation from factors
- 9. Creating an equation from a graph
- 10. Rational Root Theorem
- 11. Testing factors and zeros
- 12. Sketching graphs of polynomials
 - a. x-intercepts
 - b. y-intercepts
 - c. end behavior and shape
- 13. Complex Conjugate Theorem
- 14. Irrational Conjugate Theorem
- 15. Pascal's Triangle and Binomial Expansion
- 16. TRANSFORMATIONS (independent review: pg. 206)

Recommended Review Problems from Textbook

Chapter 4 Review: #6-24, 25-27 (leave factored), 29-31 (leave factored),

34-37, 40-42

Chapter 4 Test: #1-8, 10

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