**Pre Calculus Unit 7: Power, Polynomial, and Rational Functions**

**Lesson 1: Power Functions and Modeling; Polynomial Functions of Higher**

 **Degree; The Intermediate Value Theorem**

 HW—Worksheet, p. 190 (17,21,35,39,43,51)

 p. 202 (1,5,9,17,21,25,29,33,37,41) ONLINE SECTION 2.3

**Lesson** 2: **Zeros of Polynomial Functions, Factor and Remainder Theorems, Rational Root Theorem, Upper and Lower Bounds, Descartes’ Rule of Signs**

 HW p. 190 (19, 37,41,55) ONLINE SECTION 2.2

 p. 202 (3,7,11,19,23,27,31,35,39) ONLINE SECTION 2.3

 p. 216 (9,13,17,21,25,29,37,41,45,53,57,61) ONLINE SECTION 2.4

**Lesson 3: Absolute Value Equations and Inequalities; Polynomial Inequalities**

 HW p. 216 (11,15,19,23,27,39,43,47,55,59) ONLINE SECTION 2.4

 p. 59 (1-7 odd); p. 265 (1-19 0dd w/o calculator) ONLINE SECTION P7

**Lesson 4: Analyzing Rational Functions; Behavior Near Vertical Asymptotes**

 HW p. 59 (2-8 even); p. 265 (2-18 even w/o calculator) SECTION P7

 p. 246 (1,5,9,13,17,21,25,29) ONLINE SECTION 2.6

**Lesson 5: Graphing Rational Functions**

 HW p. 246 (3,7,11,15,19,23,27,39,43,47,51,55,59,63,67)

 **ONLINE SECTION 2.6**

**Lesson 6: Limits**

 **Review**

 p. 270 (3,4,17,18, 25-38, 47-82, 93-96) ONLINE REVIEW EXERCISES

**Lesson 7: TEST –GOOD LUCK!**