Mr.Bell-Algebra 2 Chapter 5: Polynomials and Polynomial Equations

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| **Date** | **Class** | **HW Assignment** | **Standards** |
| Monday-Tuesday  1/5-6 | 5.1 Polynomial Functions: standard form, degree, finding mins and maxs, end behavior, increasing/decreasing intervals | **5.1 Worksheet**  **#8-31**  **#32-39, 41-49** | A.SSE.1.a  F.IF.7.c |
| 3 days | 5.2 Polynomials, Linear Factors, and Zeros: Finding zeros from factored form, cubic factoring using GCF, Factor Theorem, writing polynomial in standard from given factors, multiplicities, relative vs. absolute max/min | **5.2 Worksheet**  **#7-18, 19, 20, 23, 26**  **#27-34 (graph too), 35, 37, 40-42, 52-54, (need to do some word problems)**  **5.2 review worksheet** | F.IF.7.c  A.APR.3 |
| Thursday  1/15 | 5.1/5.2 Review (off track because of snow days,delays, etc.) | **5.1/5.2 review wksht** |  |
| Friday  1/16 | **Quiz 5.1/5.2** | **NONE** |  |
| Tuesday-Thursday  1/20-22 | 5.3 Solving Polynomial Functions: Find all solutions (including imaginary) by factoring using all techniques including GCF, quadratic methods, grouping, and sum/difference of cubes, and sometimes in conjunction with square roots and quadratic formula; By graphing using the graphing calculator; Problem solving | **Tuesday- Handwritten Worksheet page 1**  **Wednesday- Handwritten Worksheet page 2**  **Thursday- More on sum/diff of cubes, word problems, finding zeros by intersecting**  **HW: 5-3 packet: #2, 3, 10, 12, 14, 18, 20, 23, 25, 30, 36, 46, 50, 53, 66** | A.REI.11  A.SSE.2 |
| Friday  1/23 | 5.4: Long Division of Polynomials | **5.4 Worksheet: #1, 3, 5, 16, 46, 48** | A.APR.1,2,6 |
| Monday  1/26 | 5.4: Synthetic Division of Polynomials | 5.4 Worksheet: #22, 26-28, 54, 55, 57, 60 |
| Tuesday  1/27 | Review 5.3/5.4 | Review Worksheet |  |
| Wednesday  1/28 | **Quiz 5.3/5.4** | **None** |  |
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| Monday  2/2 | 5.6: Find all zeros of a function: Given an x-intercept, use synthetic and factoring to graph | Worksheet | N.CN.7-9  A.APR.3 |
| Tuesday  2/3 | 5.6: Find all zeros of a function: Given an x-intercept, use synthetic and other quad methods to graph | Worksheet | N.CN.7-9  A.APR.3 |
| Thursday  2/5 | 5.5: Write polynomial functions in standard form given zeros; conjugate pairs | Worksheet | F.IF.4-6 |
| Monday  2/9 | Review 5.1-5.6; hand back quizzes | Review Worksheet |  |
| Tuesday  2/10 | Review all of Chapter 5 | Finish Review Worksheet |  |
| Wednesday  2/11 | **CHAPTER 5**  **TEST** | Take home portion of test |  |