Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_

Algebra 2 Honor Spiral 17 - Review

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| Polynomial Equations & Applications | | | | |
| 1. 1. Write the equation of least degree of a polynomial where f(3)=0, f(0)=0, f(-4)=0 with a multiplicity of 3, and f(1)=5. Then graph the equation. | | | | |
| Rational Exponents and Radical Notation | | | | |
| 1. Simplify completely (no negative exponents): | | | 1. Write the radical as an exponential expression.     Simplify | |
| Function Operations and Inverses | | | | |
| 1. Given  and , find: | 5. Let .   1. Find h-1(x). 2. Find the domain of h(x). Find the domain of   h-1(x).   1. Find the range of h(x). Find the range of h-1(x). | | |
| Radical Functions and Equations | | | |
| 6. Graph each function. Identify its domain and range. Note for graphs: Identify end point or point of inflection, and a couple other points on the graph. | | 7. Solve each radical equation. Identify any extraneous solutions when necessary. | |