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.   |