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

Algebra 2 Honor Spiral 15 - Review

|  |  |
| --- | --- |
| Polynomial Division and Special Factoring | |
| 1. Find the quotient.   a.    b. | 1. Factor completely:   a.    b. |
| Factoring Polynomials using the Rational Root Theorem | |
| 1. Given , (a) write down all possible rational roots (good guesses); (b) completely factor f(x); (c) list all roots of f(x). | 1. Given, (a) write down all possible rational roots (good guesses); (b) completely factor f(x); (c) list all roots of f(x). |
| Polynomial Equations & Applications | |
| 1. Write the equation of least degree for the graph below. Don’t forget to solve for your “a” value! | |
| Rational Exponents and Radical Notation | |
| 1. Simplify Completely (no negative exponents):   a.  b. | 1. Write each of the following radicals in exponent form   a.  b. |