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

Algebra 2 Honor Spiral 13 - Review

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| Exponent Rules | | | |
| 1. Simplify completely (no negative exponents) | | 1. Simplify completely (no negative exponents) | |
| Polynomial Basics | | | |
| **Simplify the expressions below.** | | | |
| 1. a.   b. | 1. Sketch a graph of this polynomial:       Describe the end behavior:  as  ,  as | | |
| Polynomial Division and Special Factoring | | | |
| 1. Find the quotient.   a.    Is x2+2 a factor of 4?  b.    Is x = -6 a zero of ? | | | 1. Factor completely:   a.  b. |
| 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). | | |