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

Algebra 2 Honor Spiral 13 - Review

|  |
| --- |
| 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).
 |