



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

Date: \_\_\_\_\_

## Polynomial Review

### 1. Classify the Polynomial by its Degree and Term

a.  $3x^2 + 2x - 1$        $\rightarrow$       Ex: Quadratic Trinomial

b.  $2x$        $\rightarrow$       \_\_\_\_\_

c.  $5x^4 - 27x^3 + 2x + 1$        $\rightarrow$       \_\_\_\_\_

d.  $10x^5 - 2x$        $\rightarrow$       \_\_\_\_\_

### 2. Add or Subtract the Polynomials

a.  $(3x^2 + 2x + 1) + (x^2 - 4x + 3)$       =      \_\_\_\_\_

b.  $(5x^2 - 1) - (2x + 7x^2)$       =      \_\_\_\_\_

c.  $(4x^{10} + 2x^8) - (-3x^9 + 2x^8)$       =      \_\_\_\_\_

d.  $(4x^3 - x^2 + 6) + (2x^3 + 3x^2 + x)$       =      \_\_\_\_\_

### 3. Multiply the Polynomials

a.  $(x^2 + x + 1)(2x^2 + 2)$       =      \_\_\_\_\_

b.  $(x + 1)(x - 2)$       =      \_\_\_\_\_

c.  $(x^2 - 2)(x^2 + 2)$       =      \_\_\_\_\_