**Simplify the following radicals.**

2) 3)

**Simplify the following expressions.**

5)

6) 7)

**Simplify using powers of i.**

8) 9)

**Multiply the following polynomials.**

**Expand the expressions.**

**Add or Subtract. Write the polynomial in standard form. Identify the leading coefficient, degree, and number of terms. Name the polynomial.**

Standard Form: Standard Form:

Leading Coefficient: Leading Coefficient:

Degree: Degree:

Name: Name:

**Divide the following polynomials using long division.**

**Determine the degree of the following monomials.**

18) 19) 8 20)

**Write an example of each of the following:**

1. Constant Monomial \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Quintic Binomial \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Cubic Polynomial \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_