

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

Basic Skills

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

**Adding and Subtracting Polynomials**

**Find the sum. Be sure to write the answer in standard form.**

1.  $(x^2 + 2x + 7) + (4x^2 + x - 3)$

2.  $(5x^2 - 2x + 4) + (-2x^2 + 3x - 1)$

3.  $(5x^2 + x^3 + 6) + (x^2 + 5 - 6x)$

4.  $(m + 3m^3 - 4m^5) + (2m^3 + 5m^5 - 4)$

5.  $(-4x^3 - 7x + 5) + (-x^2 + 6x - 1)$

6.  $(3m + m^3 - 2m^5) + (7m^3 + m^5 - 1)$

**Find the difference. Be sure to write the answer in standard form.**

7.  $(4n^2 - 6n + 5) - (8n^2 + n + 3)$

8.  $(-2x^2 - 7x + 3) - (-5x^2 + 3x - 7)$

9.  $(x^2 - x + 3) - (-3x^2 + 5x - 2)$

10.  $(-4x^3 - 8x^2 + 5x + 9) - (6x^2 + 2x - 4)$

11.  $(2x^3 + 4) - (-x^2 + 3x)$

12.  $(6x - 3x^2 + 1) - (9x - 4 - 3x^2)$