

Name: _____

Name: _____

Basic Polynomial Operations

Date: _____ Period: _____

Name each polynomial by degree and number of terms.

1a) $x + 6$

2a) $x^2 + 3x^2$

3a) 7

4a) $3x^3 + 2x^2 + 4x^2 + 3x^2 + 6$

5a) $-3x^2 + x^2 + 6$

6a) $3x^2 + 5x + 10$

7a) $x + 6$

8a) $-6x + 3x^2 + x^2$

9a) Critical Thinking: Why is it impossible to have a linear equation with one variable?

Simplify each expression.

10a) $3x^2 + x^2 + (3x^2 + x^2)$

11a) $5(x + x^2) + (3x^2 + 4x)$

12a) $3x + 3x^2 + 3x^2 + 6 + 3x + 3x + 3x^2$

13a) $3x + 3x^2 + 3x^2 + 6 + 3x^2 + 3x + 3x^2 + 3x^2$