

Name: key

Unit 7 Day 2

Homework

Name each polynomial by degree and number of terms.

1)  $7b$  monomial linear

2)  $-2r - 7$  binomial linear

3)  $10x^3 - 1$  binomial cubic

4)  $-10k^2 + 8$  binomial quadratic

5)  $-6x^2$  monomial quadratic

6)  $2 - 6r$  binomial linear

7)  $-8 + 10k^3 - 10k^2$  trinomial cubic

8)  $-9b^2$  monomial quadratic

9)  $7n^4$  monomial quartic

10)  $5x^4$  monomial quartic

11)  $k^3 - 8$  binomial cubic

12)  $-2$  monomial constant

Simplify each expression.

13)  $(7x + 2 + 6x^4) - (3x^4 - 6x - 1)$

$$3x^4 + 13x + 3$$

14)  $(n^4 - 8n - n^2) - (6n^4 + n^2 + 3n)$

$$-5n^4 - 2n^2 - 11n$$

15)  $(7b^4 + 8 - 2b^3) - (7b^3 + 1 - 4b^4)$

$$11b^4 - 9b^3 + 7$$

16)  $(3p^2 - 5p - p^3) - (8p^2 - p^3 - 6)$

$$-5p^2 - 5p + 6$$

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15)  $(7b^4 + 8 - 2b^3) - (7b^3 + 1 - 4b^4)$

16)  $(3p^2 - 5p - p^3) - (8p^2 - p^3 - 6)$