

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

Unit : Polynomials



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

Homework 1: Classifying Polynomials

Directions: Classify the following polynomials by degree and number of terms.

1.  $3x + 12$

2.  $-7x^2 + 4x - 1$

3.  $x^3 - 8$

4.  $24$

5.  $2x^4 - x^3 + 5x^2 + x - 7$

6.  $10x$

Directions: Write the following polynomials in standard form, and identify leading coefficient.

7.  $y^2 + 3y^4 - 7y + 2y^3 - 4$  LC: \_\_\_\_\_

8.  $9x^4 - 2x^2 + 7x - 8x^3 + x^5 - 4$  LC: \_\_\_\_\_

9.  $-2b^2 + 5ab + 7a^2$  LC: \_\_\_\_\_

10.  $-3m^2n^2 + 8mn^3 + m^3n$  LC: \_\_\_\_\_

11.  $a^2 + 3a^4 - 7a + 2a^3 - 4$  LC: \_\_\_\_\_

12.  $8y^3 - 3xy^2 - x^2y + 2x^3$   
LC: \_\_\_\_\_

Classifying Polynomials

Directions: Classify each polynomial by degree and number of terms.

13.  $3x + 12$

14.  $24$

15.  $-7x^2 + 4x + 1$

16.  $3x^4 - x^3 + 5x^2 + x - 7$

Classify the following polynomials by degree and number of terms.

17.  $4p^3 + 2p^2 + 19p - 5$

\_\_\_\_\_

18.  $5x^4 + 12$

\_\_\_\_\_

19.  $n^2 - 7n - 21$

\_\_\_\_\_

20.  $3$

\_\_\_\_\_

21.  $2x + 7$

\_\_\_\_\_

22.  $-8y^2$

\_\_\_\_\_