

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

## Polynomials

A) Write each polynomial in standard form. Then name each polynomial based on its degree and number of its terms.

1)  $5 - 2x$

2)  $3x^4 - 4 + 2x^2 + 5x^4$

3)  $3y - 4 - y^3$

B) Determine if the given polynomial is a monomial, binomial or a trinomial

4)  $10x^2 - 3y - 3$

5)  $x^3 - x^2 - 4x - 4$

6)  $-x^3 + 36x^2 - 16x - 3$

7)  $-12x^3 - 2x^2 + x - 4$

8)  $-6x + 9$

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

C) Determine the degree of the following polynomials:

10)  $4x^4y - 13x^7y^2 - x^6$

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

D) 12) Write the polynomial in standard form:

$$-3x + 14x^3 - 3xy - 15 + x^2$$