Algebra II

4-1

Polynomials

Label the parts of the following Polynomial.

$$3x^3y^3 - 5x^2y^4 + 2xy^3 - 7$$

Which of the following do you think are like terms?

$3x^4$	$-2x^2y^3$	y^4
$5x^3y^4$	$7y^3x^2$	6
$4x^3$	$-8x^3y^2$	$9y^4$

What do you think is the degree of each monomial?

$8x^3 \longrightarrow$ _____ $-7x^4y^2 \longrightarrow$ _____

$6x^5y \longrightarrow$ _____ $19 \longrightarrow$ _____

What do you think is the degree of this Polynomial?

$3x^5y^4 - 9x^3y^4 + 11xy^7 \longrightarrow$ _____

Simplify, arranging terms in order of decreasing degree of x. Then write the degree of the polynomial. (pg 170)

1) $2 - x^2 + 3x + 2x^2 - 5x$

a) add the polynomials and b) subtract the second polynomial from the first.

9) $5m - 4, \quad 2m + 3$

Assignment:
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1-27 all