Algebra II

4-1

Polynomials

Oct 23-10:01 AM

Label the parts of the following Polynomial.

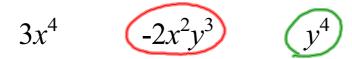
$$3x^3y^3 - 5x^2y^4 + 2xy^3 - 7$$

terms

(monomial)

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Which of the following do you think are like terms?



$$5x^3y^4 \qquad \boxed{7y^3x^2} \qquad \qquad 6$$

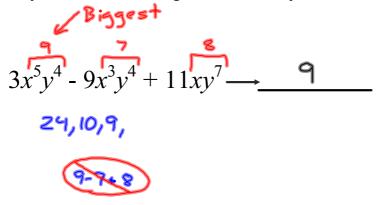
$$4x^3 -8x^3y^2 9y^4$$

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What do you think is the degree of each monomial?

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What do you think is the degree of this Polynomial?



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Simplify, arranging terms in order of decreasing degree of x. (pg 169) Then write the degree of the polynomial.

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

 $x^{2} - 2x + 2 \implies \text{degree } 2$

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

9)
$$5m-4$$
, $2m+3$
a) $(5m-4)+(2m+3)$
 $5m-4-2m-3$
 $3m-7$

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Simplify.
17)
$$3(x^2-2x+4)+2(5x^2-7)$$

 $3x^2-6x+12+10x^2-14$
 $13x^2-6x-2$

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