Welcome to Mrs. Hagen's Math Class

Please get a yellow starter from the front of the room as you walk in.

Aug 22-7:15 AM

August 22

- Starter 1
- Name Cards
- Pre-Test
- 1.1 Add, Subtract, Multiply Polynomials

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1.1 Add & Subtract Polynomials Notes

What is a polynomial?
many terms • constant, variable, product

How do you name the degree of the polynomial?
The highest exponent
no fraction powers
no negative power

What is standard form for a polynomial?
In order from highest exponent to lowest

Decide whether each expression is a polynomial. If it is, place it in standard form, state the degree, leading coefficient, of the polynomial. If it is not, explain why not.

Ex 1) 65 Ex 2) $3x^2 - 4x + 13 - 2x^5$ Ex 3) $45xy^{-3}z^5$ Ex 4)

yes yes No $\frac{1}{y^3}$ $\sqrt[7]{x^1}$, No

$65x^0$ zero $-2x^5+3x^2-4x+13$ $x^{\frac{1}{2}}$

$65x^1$ 5th degree

LC • -2

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$5* + 3* = 8*$

How to add and subtract polynomials:
Combine like terms
same exponent, same variable(s)

Simplify the following expressions by adding or subtracting the polynomials together.

Ex. 5) Ex. 6)

$13x^5+13x^2-11$

$4x^2+9x^2$

Ex. 7)

Solve for (?).

Ex. 8)

Ex. 9)

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Ex 6)

$(5b+7b^2)-(9b-22b^2)$

distribute the negative

$5b+7b^2-9b+22b^2$

$-4b+29b^2$

$29b^2-4b$

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Ex 7) $(4y^3-13y^7)-(-16y^7-35y^3)+(4y^7-8y^3)$

$4y^3-13y^7+16y^7+35y^3+4y^7-8y^3$

$7y^7+31y^3$

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$3x^3+2x+1+(?)=9x^3+5x^2+7x+4$

$3x^3+6x^3=9x^3$

$0x^2+5x^2=5x^2$

$2x+5x=7x$

$1+3=4$

$6x^3+5x^2+5x+3$

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Ex. 9

$4y^3+2y^2-3y-5-?=-2y^3+4y^2-5y+3$

$4y^3-6y^3=-2y^3$

$2y^2-(-2y^2)=4y^2$

$-3y-2y=-5y$

$-5-(-8)=3$

$6y^3-2y^2+2y-8$

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Homework

- calculator
- disclosure
- 1.1 # 1-12

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