Algebra: Monomials

Adding & Subtracting

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What is a monomial?



a = coefficien	t
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n = exponent

A monomial is the product of a number and a power of variable x (or y, a, b, c etc)

 $ex. -5x^{6}$

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What is the coefficient?

Variable?

Exponent?

The degree of the monomial corresponds to the variables exponent.

Ex. What is the degree of $7a^4$?

The degree of a monomial with more than one variable is equal to the sum of the exponents.

ex. What is the degree of $7x^5y^2$?

Adding and Subtracting Monomials

When two monomials have the *same* variables **and** the *same* exponents - they are "like terms" or similar.

Only when they are similar, can we add or subtract the monomials.

ex. Are $6x^3$ and $-2x^3$ similar?

Adding and Subtracting Monomials

Recap: Only if they are like terms can monomials be added or subtracted.

ex. Can we add $-5y^2$ and $6y^2$?

Yes!

 $-5y^{2} + 6y^{2} = 1y^{2} \text{ or just } y^{2}$

Adding and Subtracting Monomials

ex.

6a + 8a - 3a =

ex.

$$-7y^3 + 8y^3 - 10y^3 =$$