Polynomials

Adding Polynomials

A **polynomial** is a mathematical expression with **more than one term**.

An expression with **two terms** is a **binomial**.

An expression with **three terms** is a **trinomial**.

An expression with **one term** is a **monomial**.

The **degree** of each term is determined by the exponents of the variables.

When you add polynomials we follow the same pattern as with adding numbers, fractions and decimals:

To compare or combine, you must have the same kind.

Example:

This is doing the distributive property twice. The shortcut is the FOIL method.

$$(p+l)(a+n) = pa + pn + la + ln$$

Remember to always keep the sign with the number it precedes (goes before).

Steps:

- Multiply the first terms.
- Multiply the **o**utside terms.
- Multiply the inside terms.
- Multiply the last terms.
- Combine like terms.



