$3x^2+x-5$
$||$
$3x^2+1x^1-5x^0$

Each of them always has variable raised to the power

Simplifying Polynomials

- $x^2+6x-x+10$
  $x^2+5x+10$

- $16-2x^3+4x-10$
  $-2x^3+4x+6$

- $3x^2+10-3x+5x^2-4+x$
  $3x^2+5x^2-3x+x+10-4$
  $8x^2-2x+6$

Expressions with Distributive Property $(x(y+z)=xy+xz)$

- $2(3x+5y)$
  $6x+10y$

- $4(x^2+3x-5)$
  $4x^2+12x-20$

- $x(x^2-8x+2)$
  $xxx-8xx+2x$
  x^3-8x^2+2x

Un-distributing (Factoring Out)

- $4x^3+4x^2+4x$
  $4(x^3+x^2+x)$

- $8x+6y+4z$
  $2(4x+3y+2z)$

- xy^2+xy+x
  $x(y^2+y+1)$