SIMONE

POLYNOMIALS

POLYNOMIAL

Polynomials are named based on two basic.

- 1. The highest exponent
- 2. The number of terms

How to name the polynomial

For example:
x3-4x2+3x-1

→ The highest
exponent is three
→ The number of
terms is four
So, the name of
this polynomial is
cubic four term of
polynomial.

For example:

x3-5x+1

→ The highest
exponent is three
→ The number of
terms is three
So, the name of
this polynomial is
Cubic Trinomial

Exponent
0 constant
1 linear
2 quadratic
3 cubic
4th Degree
5th Degree
6th Degree
7th Degree
8th Degree

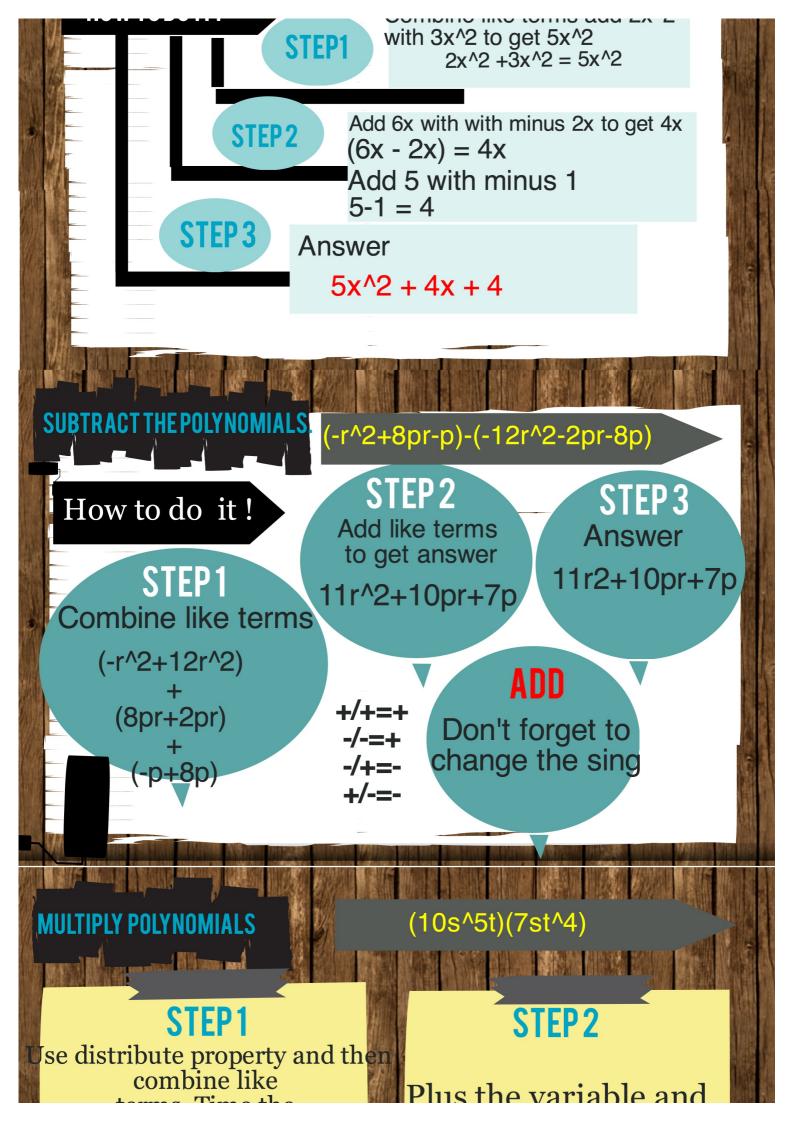
Terms
0 constant
1 monomial
2 binomial
3 trinomial
4th Term Polynomia
5th Term Polynomia
6th Term Polynomia
7th Term Polynomia

Polynomial	Degree	Number of Terms	Name
$10x^3 + 4x^2 + x - 4$	3 (from the x^3)	4	Cubic Polynomial
$t\left(t^3+t\right)=t^4+t^2$	4 (from the t^4)	2	Quartic Binomial
8	0 (no variables)	1	Constant Monomial
$\frac{\left(x+4\right)}{2} + \frac{xy}{\sqrt{3}} + 3$	2 (from the xy)	3	Quadratic Trinomial
$4x^3y^4 + 2x^2y + xy + x + y - 4$	7 (from the x^3y^4)	6	Polynomial of Degree 7
$x(x+4)^{2}(x-3)^{5}$	8 (add up the exponents: 1 + 2 + 5 = 8).	(Difficult to say unless multiply out)	(Difficult to say unless multiply out)

ADD THE POLYNOMIALS

 $(2x^2 + 6x + 5) + (3x^2 - 2x - 1)$

只照了 18 10 14 14 14 14 15 12 16 12



terms. Time the numbers and plus the power of exponent each variable $(10s^5*7s)$ Answer= $70s^6$ Add: s is the power of 1 (usually we don't write it down) STEP3 The answer

exponent together

$$t+t^4 = t^5$$

Add them together

70s^6t^5

SPECIAL PRODUCTS OF BINOMIALS

STEP 1

 $(x-6)^2$

Make it to two set

(x-6)(x-6)

STEP 2

Time x and x together and time x with -6

$$x^2-6x$$

Time -6 and x together then time -6 and -6 together

$$-6x+(-6*-6)$$

