## POLYNOMIALS

POLYNOMIAL:
more than OWE term.
MUST STILL MEET THESE CONDITIONS!

1. No Neg. Exp.
2. No Fraction EXP.

## Degree of a Polynomial = to the highest)degree of the Ex: $\frac{\left(\begin{array}{c}6 x^{5} y^{\prime}+ \\ 6 \\ 6\end{array} \frac{4 x^{3} y^{2}-12 x y^{3}}{5}-4\right.}{\text { medrel:6 }}$

## Simplifying Polynomials


3. Combine Like Terms

## EX\# 1: SIMPLIFY

$\left(3 x^{2}+6 x y-7 y^{2}\right)-\mid\left(-x^{2}+5 x y-2 y^{2}\right)$
$3 x^{2}+6 x y-7 y^{2}+x^{2}-5 x y+2 y^{2}$
$4 x^{2}+1_{2} x y-5 y^{2}$
DEGREE: $\alpha$
Erinomild

EX \#2: SIMPLIFY


## $x^{2}+4 x+4 x+16$

DEGREE: $\mathcal{\alpha}$


EX\# 3: SHAPLIFX $(x-4)(3 x-y+3)$
$3 x^{2}-x y+3 x-12 x+4 y-12$
$3 x^{2}-x y-9 x+4 y-12$
DEGREE: 2
Polynomial

