## POLYNOMIALS many

POLYNOMIAL:
More than one terms.
MUST STILL MEET THESE CONDITIONS!

1. No Neg. Gyps-
2. No fractions Exp.


## Simplifying Polynomials <br> 1. Distribute <br> ( $A$ dd) <br> 2. Apply Exp. Rules <br> 3. Combine like Terms

EX \# 1: SIMPLIFY
$4\left(-4 x^{2}-3 x y+5 y^{2}\right)$

$$
\frac{4\left(-4 x^{2}\right)+4(-3 x y)+4\left(5 y^{2}\right)}{-16 x^{2}-12 x y+20 y^{2}}
$$

EX \# 2: SIMPLIFY
$3 x y^{2}\left(5 x^{2} y-6 x y^{3}\right)$

$$
\begin{aligned}
& 3 x^{1} y^{2}\left(5 x^{2} y\right)+\left(3 x y^{2}\right)\left(-6 x y^{3}\right) \\
& 15 x^{3} y^{3}-18 x^{2} y^{5}
\end{aligned}
$$

