## POLYNOMIALS

POLYNOMIAL:

$$
4 \text { or more terms. }
$$

MUST STILL MEET THESE CONDITIONS!

$$
\text { 2. No National } \text { N xp. }
$$

## Degree of a Polynomial <br> = to the highest degree of the <br> 

## Simplifying Polynomials <br> 1. <br>  <br> 2. <br>  <br> 3. Likl Tllms

EX \#1: SIMPLIFY
$(x+4)(x+4)$
$x^{2}+4 x+4 x+16$
$x^{2}+8 x+16$
DEGREE: $Q_{1}$ Trinomial

## EX\# 2: SIMPLIFY


$3 x^{2}-x y-9 x+4 y-12$
degree: $\frac{2}{}$, Polynomial

## EXAMPLES $(2 x+5)(x+4)$

 The sides of a rectangle have a length of $2 x^{2}+8 x+3 x+20$ $x+4$ mints and a width of $2 x+5$ units. Which of the following represents the area of the rectangle?
a. $2 x^{2}+5 x+8 x+20$
b. $3 x+9$
c. $6 x+18$

d. $2 x^{2}+13 x+20$

