

## EXAMPLES:

## 1. Expand 2. Rewrite w/ Exp.

$2^{3 \cdot} \cdot 4^{2}$
$\mathrm{X} \bullet \mathrm{X} \bullet \mathrm{X} \cdot \mathrm{y} \cdot \mathrm{y} \bullet \mathrm{y} \cdot \mathrm{Z} \cdot \mathrm{Z}$
$2 \cdot 2 \cdot 2 \cdot 4 \cdot 4$

## PRODUCT RULE

## IF THE SAME BASE EXISTS WHEN MULTIPLYING EXPONENTS, THEN THE FOLLOWING RULE APPLIES....



## EXAMPLES:

3. Rewrite
4. Rewrite
$2^{3} \cdot 2^{2}$
$2 x^{3} 4 x^{7}$

$8 x^{10}$

## ZERO RULE ANYTHING TO THE ZERO POWER IS EQUAL TO

## ONE



## EXAMPLES:

## 5. Rewrite

$2,100,100,923^{0} \quad x^{0} \cdot 4 x^{7}$

6. Rewrite
$1.4 x^{7}$ $4 x^{7}$

