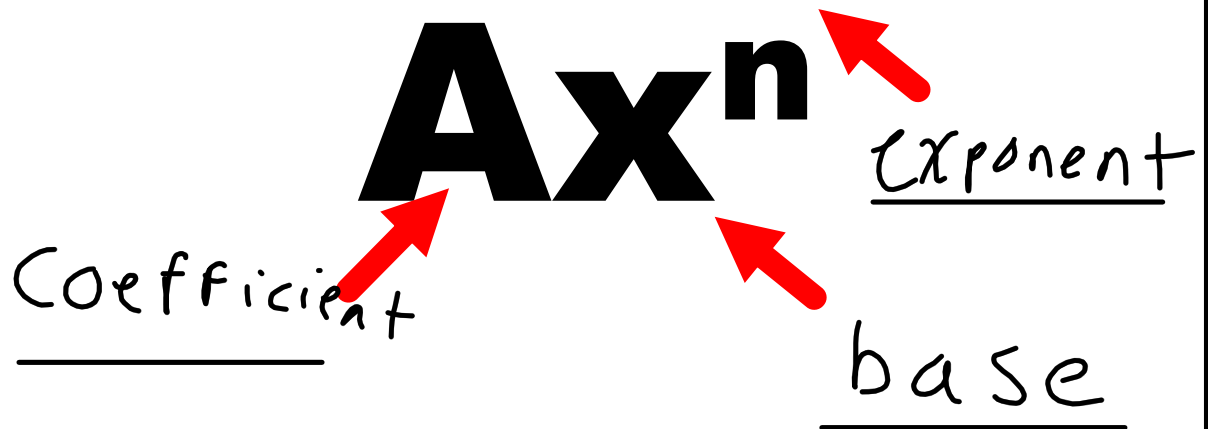


## EXPONENTS

EXPONENT: Power that indicates  
Self-multiplication



## EXAMPLES:

1. Rewrite

$$\frac{a^3 n^7}{a^1 n^4}$$

~~aaa nnnnnn~~

~~a nnnn~~

$$a^2 n^3$$

2. Rewrite

$$\frac{4 a^1 n^7}{2 a^2 n^4}$$

~~||||~~

**NEGATIVE EXPONENT RULE**

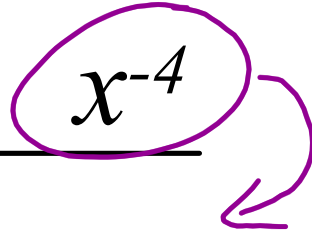
**IT IS IMPROPER TO HAVE NEGATIVE  
EXPONENTS, AND YOU MUST CHANGE  
THEM TO BE POSITIVE**

$$\mathbf{x^{-n} = \frac{1}{x^n}}$$


**DROP IT DOWN!**

**EXAMPLES:**

3. Rewrite

$$\frac{x^{-4}}{1}$$

$$\frac{1}{x^4}$$

4. Rewrite

$$(2x^{-3}y^3)(-7x^5y^{-6})$$
$$\frac{-14x^2y^{-3}}{1}$$

$$\frac{-14x^2}{y^3}$$