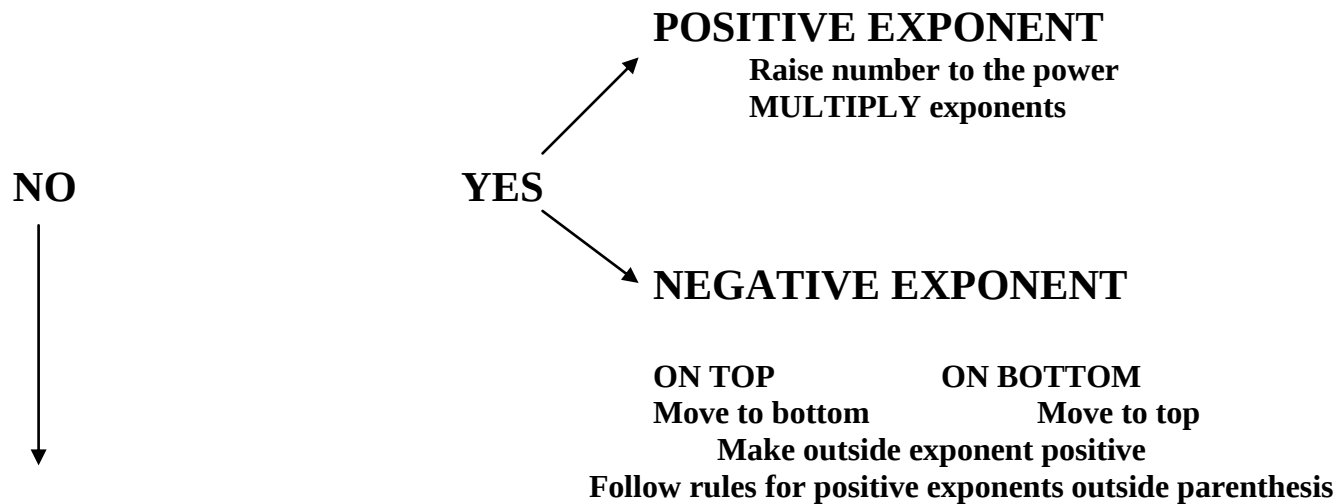


Exponents

Questions to ask yourself as you move through a problem:

1. Are there exponents OUTSIDE PARENTHESIS???



2. Multiplying Monomials - **ADD EXPONENTS**

3. Dividing Monomials – **SUBTRACT EXPONENTS**

4. **SIMPLIFY** Fractions

Finished when there is **ONLY ONE** of each variable left, no negative exponents, no parenthesis, fractions are simplified

Multiplying Monomials**ADD EXPONENTS**

$x^5 \cdot x^{-2}$ _____

$m^3 n^2 (mn)$ _____

$(-2x^7 y^2 z^4)(4xyz)$ _____

Power to a Power**MULTIPLY EXPONENTS**

$(x^3)^4$ _____

$(-3m^2 n^5)^2$ _____

$\left(\frac{3r^6 t}{4}\right)^2$ _____

Negative Exponents**RECIPROCAL – FLIP IT!
CHANGE TO POSITIVE POWER**

x^{-4} _____

$m^3 n^{-2}$ _____

$5y^{-3}$ _____

$(5y)^{-3}$ _____

$\left(\frac{3}{4}\right)^{-2}$ _____

Quotients**SUBTRACT EXPONENTS**

$\frac{x^5}{x^2}$ _____

$\frac{m^{-2} n^3}{m^{-4} n^{-3}}$ _____

$\frac{12xy}{8xy^3}$ _____

$\frac{(2r^2 t^3)^{-3}}{4r^{-3} t^3}$ _____

$\frac{3x^{-5} y^3}{(4x^{-2} y^2)^{-1}}$ _____

