Mai d'nit 3 Day 5
3-4 Negative Exponents + Flypping

Vegative exponents create a "flip" effect.

$$\begin{pmatrix} 3 \\ 5 \end{pmatrix}^{-2}$$

$$= \begin{pmatrix} 5 \\ 3 \end{pmatrix}^{2}$$

$$= \begin{pmatrix} 25 \\ 9 \end{pmatrix}$$

$$=\frac{3^{-4}}{3^{4}}$$

$$3) \left(\frac{5}{6}\right)^{-1}$$

$$= \left(\frac{6}{5}\right)^{-1}$$

$$= \left(\frac{6}{5}\right)^{-1}$$

$$\frac{2}{3^{-3}}$$

$$= \frac{27}{16}$$

* Bases with negative exponents are flipped!
Positive exponents are not.

$$5) 5)(-3) = 5$$

$$\begin{array}{c} 6) 2^{2} \cdot 3^{-2} \\ 4^{-1} \\ = 2^{2} \cdot 4^{1} \\ = 16 \\ 9 \end{array}$$

8)
$$(2^{3}\chi^{4})^{-4}$$

$$= \frac{2^{8}\chi^{-12}}{2^{-12}\chi^{-16}} = -12 - -16$$

$$= 2^{20}\chi^{4}$$

Practice 3-5