$(xy^2)^2 \quad (x^2y^{-3})^3$ POWAH! MULTIPLY + DIST

$(x^{2\cdot2}y^{2\cdot-2})(x^{2\cdot3}y^{1\cdot3})$

$(x^2y^{-4})(x^6y^3)$

$x^{8}y^{-1}$ $\frac{x^8}{y}$

$\left(\frac{-2x^3y^3}{3}\right)^3$ EVERY THING!!

$\frac{(-2)^3(x^3)^3(y^3)^3}{(3)^3} = \frac{-8x^9y^9}{27}$

Ex 5 $(3x^2)^{-2}$

$\frac{1}{(3x^2)^2}$

$\frac{1}{9x^4}$

Ex 4 $\left(\frac{3x^2}{2}\right)^4 = \frac{(3)^4(x^2)^4}{(2)^4}$

$3\cdot3\cdot3\cdot3$

NOT SIMPLIFIED!!

$\frac{81x^8}{16}$

Ex $\frac{9x^{-2}y^{-3}}{12x^5y^{-5}}$

subtract top − bottom

$\frac{3x^{-2-5}}{4}\quad y^{-3-5}$

$\frac{3}{4}x^{-7}y^2$

$\frac{3}{4}\cdot\frac{1}{x^7}\cdot\frac{y^2}{1} = \frac{3y^2}{4x^7}$