Name _____

Power of Quotient

Simplify the exponents. (Negative Exponent)

1) $\left(\frac{3x^2}{2y^{-1}}\right)^2$ $\frac{9x^4}{4y^2}$	2) $\left(\frac{4a^2b^{-1}}{5cd}\right)^3$ $\frac{64a^6}{125b^3c^3d^3}$	3) $\left(\frac{2p^{-1}}{q^2}\right)^4$ $16p^{-4}q^8$
4) $\left(\frac{5m^3n^2}{2p^{-2}}\right)^2$ $\frac{25m^6n^4}{4p^4}$	5) $\left(\frac{2x}{y^{-3}}\right)^3$ $\frac{8x^3}{y^{-9}}$	6) $\left(\frac{ab^2}{3cd^{-2}}\right)^2$ $\frac{a^2b^4}{9c^2d^4}$
7) $\left(\frac{3pq^{-2}}{2r^3s}\right)^4$ $\frac{81p^4q^8}{16r^6s^4}$	8) $\left(\frac{2xy^2z}{3w^{-1}}\right)^3$ $\frac{8x^3y^6z^3}{27w^{-3}}$	9) $\left(\frac{5a^3b^2}{2c^{-1}d}\right)^2$ $\frac{25a^6b^4}{4c^2d^2}$
10) $\left(\frac{4ab^2}{5cde^{-1}}\right)^3$ $\frac{64a^3b^6}{125c^3d^3e}$	11) $\left(\frac{3u^{-2}v}{2wxyz}\right)^2$ $\frac{9v^2}{4u^4w^2x^2y^2z^2}$	12) $\left(\frac{2m^3n^2}{3p^2q^{-1}}\right)^3$ $\frac{8m^9n^6}{27p^6q^3}$