

Name _____

Power of Quotient

Simplify the exponents.

1) $\left(\frac{a^5}{a^9}\right)^4$ $\frac{1}{a^{16}}$	5) $\left(\frac{c^4}{c^5}\right)^3$ $\frac{1}{c^3}$
2) $\left(\frac{y^3}{y^6}\right)^2$ $\frac{1}{y^6}$	6) $\left(\frac{z^9}{z^{19}}\right)^7$ $\frac{1}{z^{70}}$
3) $\left(\frac{b^7}{b^{12}}\right)^5$ $\frac{1}{b^{25}}$	7) $\left(\frac{w^3}{w^{10}}\right)^4$ $\frac{1}{w^{28}}$
4) $\left(\frac{c^3}{c^7}\right)^6$ $\frac{1}{c^{24}}$	8) $\left(\frac{e^2}{e^4}\right)^3$ $\frac{1}{e^6}$