

Name _____

Exponents (Power of a power)

By Using the law Power of a power,
write each expression in a single exponent. $(x^m)^n = x^{mn}$

1) $(r^5)^3$ _____	2) $(a^2)^{-3}$ _____	3) $(x^3)^{-4}$ _____
4) $(-a^{-3})^3$ _____	5) $(b^{-2})^4$ _____	6) $(r^{-3})^{-5}$ _____
7) $\left(\left(\frac{c}{d}\right)^3\right)^5$ _____	8) $\left(\left(\frac{x}{z}\right)^4\right)^2$ _____	9) $\left(\left(\frac{1}{a}\right)^{-3}\right)^{-2}$ _____
10) $\left(\left(\frac{-5}{m}\right)^{-4}\right)^{-3}$ _____	11) $\left(\left(\frac{-1}{xy}\right)^{-2}\right)^4$ _____	12) $\left(\left(\frac{-c}{x}\right)^{-5}\right)^5$ _____