

Name _____

Reciprocal and Inverse of exponents

Find the reciprocal of exponents.
and simplify the exponents.

1) 3^{-4} $\frac{1}{3^4} = \frac{1}{81}$	2) 2^{-3} $\frac{1}{2^3} = \frac{1}{8}$	3) 4^{-2} $\frac{1}{4^2} = \frac{1}{25}$
4) 5^{-4} $\frac{1}{5^4} = \frac{1}{625}$	5) $(-2)^{-4}$ $\frac{1}{(-2)^4} = \frac{1}{16}$	6) $(-3)^{-2}$ $\frac{1}{(-3)^2} = \frac{1}{9}$
7) $(-5)^{-3}$ $\frac{1}{(-5)^3} = \frac{-1}{125}$	8) 6^{-4} $\frac{1}{6^4} = \frac{1}{1296}$	9) 7^{-2} $\frac{1}{7^2} = \frac{1}{49}$
10) $(-8)^{-3}$ $\frac{1}{(-8)^3} = \frac{-1}{512}$	11) 9^{-1} $\frac{1}{9}$	12) 10^{-4} $\frac{1}{10^4} = \frac{1}{10000}$