

Name \_\_\_\_\_

# Solving Fractions With Exponents

Express each of the following as a rational number with a positive exponent.

1) $\left(\frac{1}{5}\right)^{-4}$  <u>5<sup>4</sup></u>	2) $\left(\frac{1}{3}\right)^{-2}$  <u>3<sup>2</sup></u>
3) $4^3 \times 4^{-7}$  <u><math>\left(\frac{1}{4}\right)^4</math></u>	4) $2^{-7} \times 2^5$  <u><math>\left(\frac{1}{2}\right)^2</math></u>
5) $\left(\frac{3}{5}\right)^{-2}$  <u><math>\left(\frac{5}{3}\right)^2</math></u>	6) $\left(\frac{3}{4}\right)^{-5}$  <u><math>\left(\frac{4}{3}\right)^5</math></u>
7) $\left[\left(\frac{2}{3}\right)^2\right]^{-4}$  <u><math>\left(\frac{3}{2}\right)^8</math></u>	8) $\left[\left(\frac{5}{9}\right)^3\right]^{-5}$  <u><math>\left(\frac{9}{5}\right)^{15}</math></u>