

Name:

Date:

Period:

Practice LG 4.1: Rational Exponents

Simplify with only **positive** exponents

a) 3^{-3}

b) $(6c)^{-2}$

c) $\left(\frac{1}{b^{-12}b^{-3}}\right)^{\frac{2}{3}}$

d) $(25p^6q^8r^{10})^{-\frac{1}{2}}$

$$e) 2^{-5}$$

$$f) (3b)^{-3}$$

$$g) (81p^2q^{10}r^{14})^{-\frac{1}{2}}$$

$$h) \left(\frac{x^{20}}{x^{-5}}\right)^{\frac{3}{5}}$$