

Name: _____

Date: _____

Learning Goal 5.2

Use exponent laws to evaluate expression with positive and negative rational exponents.

Evaluate each power without using a calculator.

a. $1000^{1/3}$

b. $0.25^{1/2}$

c. $\left(\frac{16}{81}\right)^{1/4}$

Simplify.

a. $0.01^{3/2}$

b. $(-27)^{4/3}$

c. $81^{-3/4}$

d. $0.75^{1.2}$

e. $(-32)^{-0.4}$

f. $1.8^{-1.4}$