

## Practice

1. Evaluate each power.

a)  $6^{-2} =$

b)  $5^{-1} =$

c)  $2^{-5} =$

d)  $\frac{1}{2^{-4}} =$

e)  $\frac{1}{3^{-3}} =$

f)  $\frac{1}{10^{-1}} =$

2. Use the fact that  $4^3 = 64$ . Write  $4^{-3}$  as a fraction.

$4^{-3} =$

3. Write each power as a fraction with a radical in the denominator.

a)  $3^{-\frac{1}{2}} =$

b)  $2^{-\frac{1}{3}} =$

c)  $8^{-\frac{1}{4}} =$

4. Write each power with a positive exponent.

a)  $3^{-\frac{2}{3}} =$

b)  $2^{-\frac{3}{2}} =$

c)  $\left(\frac{5}{6}\right)^{-4} =$

5. Evaluate each power.

a)  $100^{-\frac{1}{2}} =$

b)  $(-125)^{-\frac{1}{3}} =$

c)  $16^{-\frac{1}{4}} =$

6. Evaluate each power.

a)  $100^{-\frac{3}{2}} =$

b)  $(-125)^{-\frac{4}{3}} =$

c)  $16^{-\frac{5}{4}} =$

7. Evaluate each power.

a)  $\left(\frac{5}{6}\right)^{-2} =$

b)  $\left(\frac{2}{7}\right)^{-3} =$

c)  $2.9^{-4}$

Use a calculator.

