

**9.4****Practice**

For use after Lesson 9.4

Evaluate the expression.

1.  $29^0$

2.  $12^{-1}$

3.  $(-15)^{-2} \cdot (-15)^2$

4.  $10^{-4} \cdot 10^{-6}$

5.  $\frac{1}{3^{-3}} \cdot \frac{1}{3^5}$

6.  $\frac{(4.1)^8}{(4.1)^5 \cdot (4.1)^7}$

Simplify. Write the expression using only positive exponents.

7.  $19x^{-6}$

8.  $\frac{14a^{-5}}{a^{-8}}$

9.  $\frac{16y^4}{4y^{10}}$

10.  $3t^6 \cdot 8t^{-6}$

11.  $7k^{-2} \cdot 5m^0 \cdot k^9$

12.  $\frac{12s^{-1} \cdot 4^{-2} \cdot r^3}{s^2 \cdot r^5}$

13. The density of a proton is about  $\frac{1.64 \times 10^{-24}}{3.7 \times 10^{-38}}$  grams per cubic centimeter.  
Simplify the expression.