

Name _____

1-2 Additional Practice

Rational Exponents and Properties of Exponents

Write each radical using a rational exponent.

1. $\sqrt[4]{7}$

2. $\sqrt[9]{10^5}$

3. $\sqrt{a^{-3}}$

4. $\sqrt[3]{b^a}$

Solve each equation.

5. $\left(4^{\frac{x}{2}}\right)\left(4^{\frac{x}{5}}\right) = 4^{14}$

6. $(2^{2x} + 2)(2^{3x-7}) = 2^2$

7. $36^{2x-7} = 6^{x-5}$