

7-5 Rational Exponents and Radicals

Find the value of each expression. (1 point each)

1. $\sqrt[4]{81}$

2. $25^{\frac{1}{2}}$

3. $16^{\frac{3}{2}}$

Write each expression in radical form. (1 point each)

4. $b^{\frac{1}{3}}$

5. $a^{\frac{3}{5}}$

6. $36x^{\frac{1}{2}}$

7. $(27c)^{\frac{2}{3}}$

Write each expression in exponential form. (1 point each)

8. $\sqrt[3]{x^4}$

9. $\sqrt{(2y)^5}$

10. $\sqrt[3]{8z^4}$