

Rational Exponents and Radicals Bell Work

Change the following expressions from rational exponents to radicals.

1. $a^{5/3}$

2. $7^{7/4}$

Change the following radical expressions to rational exponents.

3. $\sqrt[4]{2^5}$

4. $\sqrt{a^5}$

Simplify the following expressions with rational exponents.

5. $(a^6)^{2/3}$

6. $(x^4y^8)^{3/4}$

Evaluate the following radicals.

7. $\sqrt[3]{(x^3)^7}$

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

9. $\sqrt{18x^6}$

10. $\sqrt[5]{\frac{-5}{32}}$