

Must show all steps and all work to earn full credit.

Simplify the expression involving rational exponents.

1) $(-64)^{2/3}$

2) $\left(\frac{125}{343}\right)^{-2/3}$

Use the rules of exponents to simplify the expression. Write the answer with positive exponents. Assume that all variables represent positive real numbers.

3) $(8k^3m^{-6})^{1/3}$

4) $\frac{x^{1/2}}{x^{5/4} \cdot x^{-3}}$

5) $\frac{(x^{4/3})^2}{(x^3)^{7/3}}$