

Name ANSWER KEY _____points

Simplify, expressing your answer without negative exponents:

$$\left(\frac{c^{-4}}{16d^8}\right)^{3/4} = \frac{(c^{-4})^{3/4}}{(16d^8)^{3/4}} = \frac{c^{-3}}{16^{3/4}(d^8)^{3/4}} = \frac{c^{-3}}{8d^6} = \boxed{\frac{1}{8d^6c^3}}$$