

Daily Agenda

Learning Target: I can simplify powers without a calculator.

Homework	Assessments
Worksheet Do this without a calculator or table	7.1 Quiz 1/18 No Calculator

Success is never final; failure is never fatal. It's courage that counts.
-John Wooden

Nov 15-8:24 PM

Simplify. $(4x^{-1/2})^3 \div (9x^{1/3})^{-3/2}$

$$\frac{(4x^{-1/2})^3}{(9x^{1/3})^{-3/2}} = \frac{4^3 x^{-3/2}}{9^{-3/2} x^{-1/2}} = \frac{64x^{-3/2}}{(3^2)^{-3/2} x^{-1/2}}$$

$$(4 \cdot 3)^3 \quad \frac{64x^{-3/2}}{3^{-3} x^{-1/2}} = \frac{64x^{-3/2} \cdot 3^3}{x^{-1/2}}$$

$$= \frac{64 \cdot 27 x^{-1}}{x^{-1/2}} = \frac{4^3 \cdot 3^3}{x} = \frac{12^3}{x}$$

$\frac{1728}{x}$

Oct 20-7:29 AM

$$\sqrt[4]{\sqrt[3]{4}} = \left((2^2)^{\frac{1}{3}} \right)^{\frac{1}{4}} = 2^{\frac{1}{6}}$$

Jan 17-11:14 AM

⑤ $\sqrt[5]{\frac{10^{4.4} \times 10^{-6.3}}{10^{-8.1}}} = \sqrt[5]{\frac{10^{-1.9}}{10^{-8.1}}}$

$$\sqrt[5]{10^{6.2}} = 10^{\frac{6.2}{5}} = 10^{1.24}$$

Jan 17-11:16 AM

4) $(-625)^{\frac{3}{4}}$ = $(-5^4)^{\frac{3}{4}}$

$$\sqrt[4]{(-625)^3}$$

no sol.

Jan 17-11:22 AM