

Daily Agenda

Learning Target: I can simplify powers without a calculator.

<p>Homework</p> <p>7.1 Day 3 WS</p>	<p>Assessments</p> <p>7.1 Quiz 1/18 No Calculator</p>
--	--

Be more concerned with your character than your reputation, because character is what you really are, while your reputation is merely what others think you are.
-John Wooden

Nov 15-8:24 PM

7.1 Powers without a Calculator

Rewrite into common bases with fractional exponents

256

$16^2 \quad 4^4 \quad 2^8$

Sep 15-10:27 PM

Simplify.

$1728^{2/3} \rightarrow (12^3)^{2/3} = 12^2 = 144$

<p>$(2 \cdot 864)^{2/3}$</p> <p>$(2 \cdot 8 \cdot 108)^{2/3}$</p> <p>$(2 \cdot 2^3 \cdot 2 \cdot 54)^{2/3}$</p> <p>$(2 \cdot 2^3 \cdot 2 \cdot 2 \cdot 27)^{2/3}$</p>	<p>$(2^6 \cdot 3^3)^{2/3}$</p> <p>$2^4 \cdot 3^2 = 16 \cdot 9$</p> <p style="text-align: right;">144</p>
---	--

Oct 18-7:48 AM

Simplify.

$32^{-2/5}$

$(2^5)^{-2/5} = 2^{-2} = \frac{1}{2^2} = \frac{1}{4}$

Oct 18-7:48 AM

Simplify.

$\left(\frac{256}{625}\right)^{-3/4} = \left(\frac{2^8}{5^4}\right)^{-3/4} = \frac{2^{-6}}{5^{-3}} = \frac{5^3}{2^6}$

$= \frac{125}{64}$

Oct 18-7:48 AM

Simplify.

$\sqrt[5]{1024} = (1024)^{1/5} = (2^{10})^{1/5} = 2^2 = 4$

$(2 \cdot 512)^{1/5} = (2 \cdot 2 \cdot 256)^{1/5}$

$(2 \cdot 2 \cdot 2^8)$

$(2^{10})^{1/5}$

Oct 18-7:48 AM

Simplify.

$$(-64)^{\frac{2}{3}} \quad -64^{\frac{2}{3}} \quad (-64)^{\frac{3}{2}} \quad -64^{\frac{3}{2}}$$

|

|

Oct 16-7:24 AM