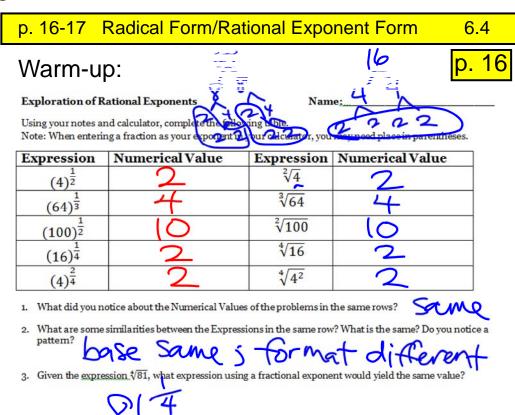
16-17 Rewriting Radical Form.notebook



p. 17

$$a^{\frac{m}{n}} = \sqrt[n]{a^m} = \left(\sqrt[n]{a}\right)^m$$

Rewrite the expressions from radical form to exponential form. Then simplify completely. 1. $\sqrt[3]{x^4} =$ 2. $\sqrt[4]{y^7} =$ 3. $\sqrt[5]{z^2} =$ 4. $\sqrt[3]{a^2} =$ 5. $\sqrt[7]{x} =$ 6. $\sqrt{7x^3} =$ 7. $\sqrt[4]{(7x)^3} =$ 8. $\sqrt[3]{(5xy)^6} =$ (5. $\sqrt{7x} =$ 7. $\sqrt[4]{(7x)^3} =$ 8. $\sqrt[3]{(5xy)^6} =$ (5. $\sqrt{7x^3} =$ 7. $\sqrt[4]{(7x)^3} =$ (5. $\sqrt{7x^3} =$ 7. $\sqrt[4]{(7x)^3} =$ (5. $\sqrt{7x^3} =$ 7. $\sqrt[4]{(7x)^3} =$ (5. $\sqrt{7x^3} =$ (7. $\sqrt[4]{(7x)^3} =$ (7. $\sqrt[4]{(7x)$

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<u>Practice</u>	<u>: Time!</u>		
Algebra 2 Chapter 6		Name	
	I can switch between radical and exponent form.		
Examples: $\sqrt[3]{\mathbf{x}^2} = \mathbf{x}^{\frac{2}{3}}$	$\sqrt[3]{(x)} = (4x)^{\frac{3}{7}}$	$\mathbf{x}^{\frac{7}{9}} = \sqrt[9]{\mathbf{x}^7}$	$\mathbf{x}^{\frac{4}{5}} = \sqrt[3]{\mathbf{x}^{4}}$
You try! Switc	h between radical and exp	ponent form.	
1. $(3x)^{\frac{7}{4}}$	2. ((())))	3. $(\sqrt[4]{10a})^3$	$(2n)^{\frac{1}{3}}$
4 J(3X)7 (6x)5/2	3. (\$10a) (10a) ^{5/4}	3[2n]
5. $(7a)^{\frac{2}{3}}$	6. $(\sqrt[3]{10b})^2$	7. $a^{\frac{5}{4}}$	8. $(\sqrt[3]{x})^{11}$
9. $\left(\sqrt[3]{2x}\right)^2$	10. $(5x)^{\frac{1}{2}}$	11. ∛x	12. $(\sqrt{7x})^3$
13. $(\sqrt[3]{a})^4$	14. $n^{\frac{5}{2}}$	15. (10b) ⁷ / ₆	16. $(2y)^{\frac{7}{4}}$

ECC Math Ambassadors #2 la#/lit#xu#p dik#fotvin#rq#ugd/#tdpxdu/#53##2 h# z la#eh#p hhvlqj#q#kh#pxglwukp #kl#gd/#2 lk#wkhu#p dik#fotvint

EHIRUH#kh# dk#Dpedvdgru#/kk#sddh#dh#rph#dph#rkdyh#rxu# wxghqw#jhqhdh#xhwhqv#iru#kh#sdqhd#fghda/#dfk#wxghqw#zrxogfkdyh## xqlxh#xhwhq#r#kh#kh#sdqh#dyrglqj#hgxqgdqf|#ru#rr#pdq|#xhwhqv#rq# wkh#dph#rslf,#Wxghqw#th#zhofrph#r#th#tq|#xhwhqv#kh|#kdyh#berxw# frobjh#pdk#fotvhv#tqg#frobjh#tq#jhqhdd#fq#kh#sdw#wxghqw#kdyh#thntg# txhwhqv#terxw#time management, college finances, classroom expectations, college life, placement in math classes, and balancing family responsibilities with college coursework.

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