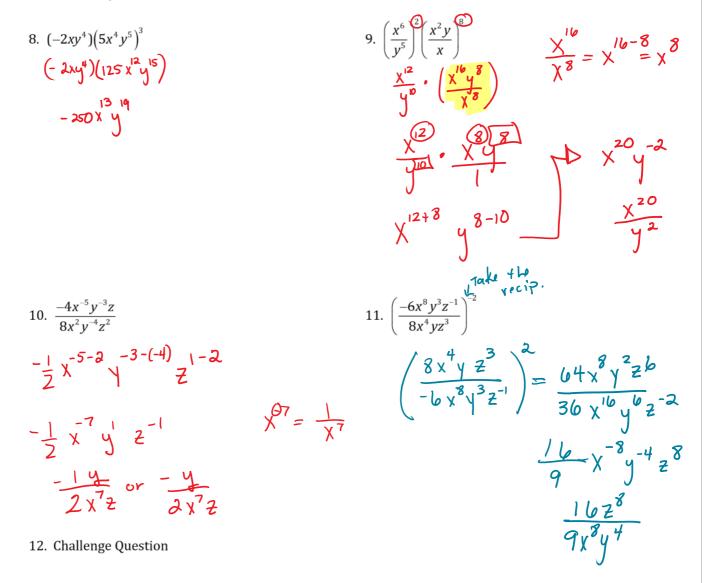
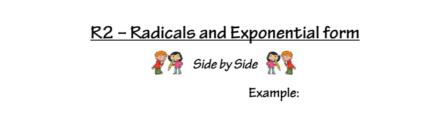
Tuesday, February 20, 2018 1:12 PM

		R	<u>2 – Exponents</u>		
	YOU MUST MEM		WING POWERS and any	7 power of 10 <i>(10³, 1</i>	104, etc)!
$2^2 = 4$	$3^2 = \mathbf{q}$	$4^2 = 16$	$5^2 = 25$	$6^2 = 36$	$13^2 = 169$
$2^3 = 3$	$3^3 = 27$	$4^3 = 04$	$5^3 = 125$	$6^3 = 21$ 6	14 ² = (9()
$2^4 = 10^{6}$	3 ⁴ = 8	$4^4 = 25 \psi$	$5^{3} = 125$ $5^{4} = 125$	7 ² = 49	15 ² = 22 5
2 ⁵ = 3 2	3 ⁵ = 243			7 ³ = 343	16 ² = 25 6
2 ⁶ = 6 4				$8^2 = 44$	172 = 289
27 = 128				$8^3 = 57 Z$	$18^2 = 324$
²⁸ =256					$19^2 = 30$
The Rules		1	Side by Side 🏋 Example:	b ² b ³ b.b b.b.b	1
1. $x^a \cdot x^b$	X a+b		1. $-3b^4 \cdot 1$		
2. $(x^a)^b$	x ^{a.b} = >	ab	2. $(-5a^6)^2$		
3. $\frac{x^a}{x^b}$	x ^{a-b}		3. $\frac{-5x^{10}}{15x^4}$	$\frac{-x^{\psi}}{3} = -\frac{1}{3}x$	6
4. $(xy)^{a}$	= x ^a . y ^a		4. $(-3a^4b^6)$ $(-3)^3(a^6)$	$(1)^{3}(b^{4})^{3}$	
5. $\left(\frac{x}{y}\right)^a$	$=\frac{x^{a}}{y^{a}}$		$= -\frac{27m}{216}$ $= -\frac{27m}{216}$ $= -\frac{27m}{216}$ $= -\frac{27m}{216}$	$\frac{1}{n^{4}} \int_{\frac{1}{2}}^{\frac{1}{2}} = -\frac{1}{2} m^{4}$	¹⁵ 12 M
6. <i>x</i> ⁻ⁿ	<u> </u>		6. $-5x^{-4}$ $\frac{-5}{\chi^{4}}$	-1m -1m - <u>r</u> 8	$n^{1/2}$
7. x ⁰ =	$1 \frac{le^2}{l_{2}^2} =$	$l_{e}^{7-7} = l_{e}^{0} = l_{e}$	7. $(4xy^2)^0$		

Let's combine and practice





The Rules

a.
$$\sqrt[3]{x^{n}} = \chi^{\frac{3}{2}}$$
 $\sqrt{\chi} = \chi^{\frac{1}{2}}$
b. $\sqrt[3]{x^{n}y^{n}} = \chi^{\frac{3}{2}} \sqrt{\chi} = \chi^{\frac{1}{2}}$
c. $\sqrt[3]{y} = \chi^{\frac{3}{2}} \sqrt{y}^{\frac{3}{2}} = \chi^{\frac{1}{2}}$
d. $\sqrt[3]{x^{n}y^{n}} = \chi^{\frac{1}{2}} \sqrt{y}^{\frac{3}{2}}$
d. $\sqrt[3]{x^{n}} = \chi^{\frac{1}{2}} \sqrt{y}^{\frac{3}{2}}$
f. BASIC PRACTICE:
1. $3e^{\frac{1}{2}} 2.27^{\frac{1}{2}} 3.\sqrt[3]{x^{n}} \sqrt{y}^{\frac{3}{2}} \sqrt{y}^{\frac{3}{2}} = \chi^{\frac{3}{2}} \sqrt{y}^{\frac{3}{2}} = \chi^{\frac{3}{2}} \sqrt{y}^{\frac{3}{2}}$
1. BASIC PRACTICE:
1. $3e^{\frac{1}{2}} 2.27^{\frac{1}{2}} 3.\sqrt[3]{x^{n}} \sqrt{y}^{\frac{3}{2}} \sqrt{y}^{\frac{3}{2}} = \chi^{\frac{3}{2}} \sqrt{y}^{\frac{3}{2}} = \chi^{\frac{3}{2}}$

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16.
$$\sqrt{48x^{4}y^{1/2}}$$

(48 $x^{4}y^{1/2}z^{7}$
(48 $x^{4}y^{1/2}z^{7})^{7/2}z^{7}$
(48 $x^{4}y^{1/2}z^{7})^{7/2}z^{7}$
(48 $x^{4}y^{1/2}z^{7})^{7/2}z^{7}$
(48 $x^{4}y^{1/2}z^{7})^{7/2}z^{7}$
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(58 $x^{4}y^{1/2}z^{7})^{7/2}z^{7}$
(68 $x^{4}y^{1/2}z^{7})^{7/2}z^{7}$
(78 $x^{4}y^{1/2}z^{7})^{7/2}z^{7})^{7/2}z^{7}$
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