I. Review Quiz...

$$\frac{125^{4/3}}{64^{4/3}} = \frac{(3125)^4}{(364)^4} = \frac{(5)^4}{4}$$

$$\frac{125^{4/3}}{(364)^4} = \frac{(5)^4}{(364)^4}$$

$$\frac{125^{4/3}}{(364)^4} = \frac{(5)$$

$$\begin{array}{lll}
+9) \left(\frac{5}{4}a^{-4}b^{2}\right)^{-3} \\
&= \left(\frac{5}{4}\right)^{3}(a^{-4})^{3}(b^{2})^{-3} \\
&= \left(\frac{4}{5}\right)^{3}a^{-4}b^{-3} \\
&= \frac{6}{4}a^{-2} \\
&= \frac{$$

$$\frac{\partial 3}{\langle \omega^{-9} \psi^{-1} \rangle^{3}}$$

$$= \frac{-4 \times \omega^{3}}{\langle \omega^{-9} \psi^{-1} \rangle^{3}}$$

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$$b = 0.01 \, \text{m}^{2/3}$$
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27.
$$\sqrt{72}$$
 $\sqrt{36} \times \sqrt{2}$
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 $\sqrt{36} \times \sqrt{2}$
 $\sqrt{5} \times \sqrt{4}$
 $\sqrt{5} \times \sqrt{4}$
 $\sqrt{5} \times \sqrt{4}$
 $\sqrt{5} \times \sqrt{4}$

BONUS:

X 10 30

X 83/30 7 67/4

Operations Involving Radicals

• Addition and Subtraction

Like radicals such as $5\sqrt{7}$ and $3\sqrt{7}$ can be added or subtracted using the distributive law. *Unlike* radicals such as $6\sqrt{2}$ and $4\sqrt{5}$ cannot be combined.

$$11\sqrt{6} + 5\sqrt{6} = 6\sqrt{2} - 4\sqrt{2} + \sqrt{2} = 4\sqrt{5} + 2\sqrt{10} =$$

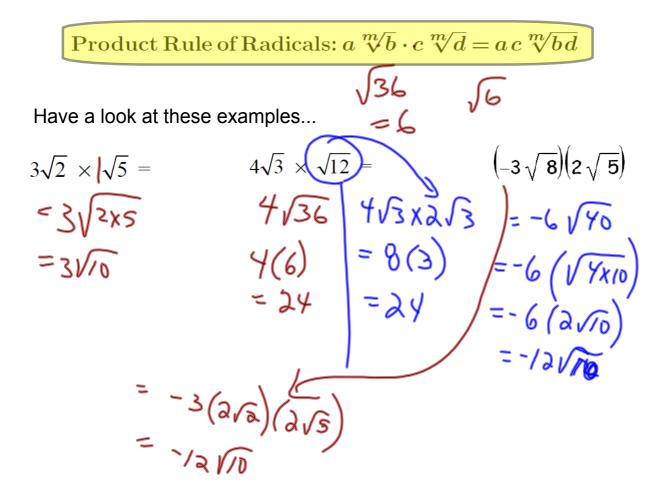
Simplifying radicals will sometimes be necessary...

$$\sqrt{32} + \sqrt{8} = 5\sqrt{12} - 2\sqrt{48} - 7\sqrt{75} = 5(\sqrt{4x3}) - 2(\sqrt{6x3}) - 7(\sqrt{5x3}) = 5(2\sqrt{3}) - 2(4\sqrt{3}) - 7(5\sqrt{3}) = 70\sqrt{3} - 8\sqrt{3} - 35\sqrt{3}$$

$$= -33\sqrt{3}$$

$$3\sqrt{7} + 2\sqrt{11} - 1\sqrt{11} + 4\sqrt{7} = 27\sqrt{11}$$

Multiplication



example: 0/3/6-5/6

= 12/3-10/18 = 12/3-10(3/2) = 12/3-30/2