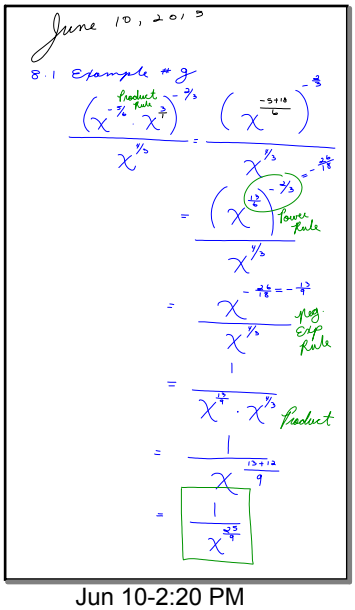

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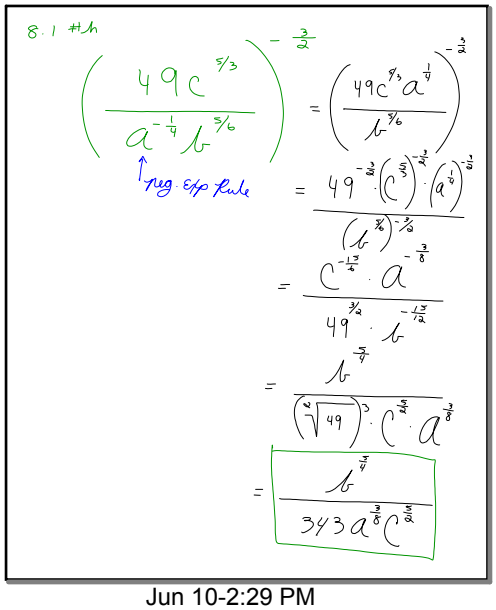

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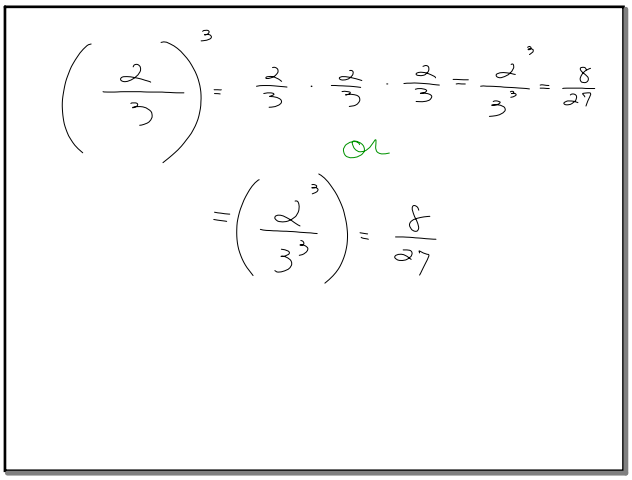

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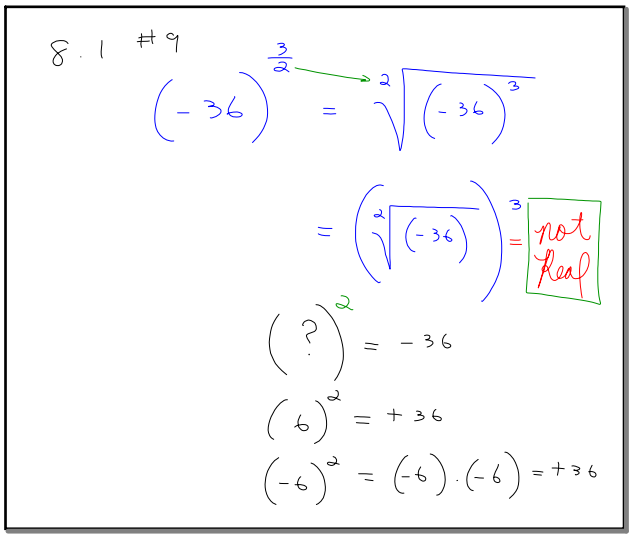

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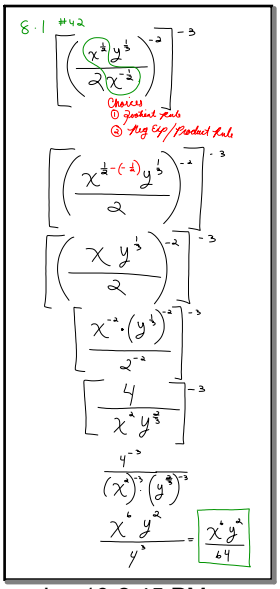

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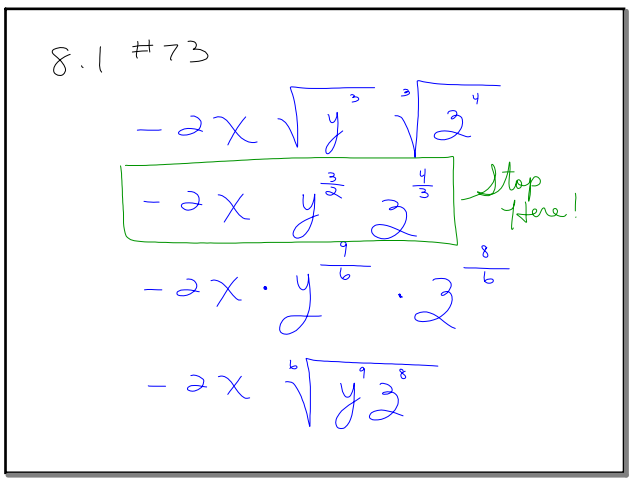

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8.2 Simplifying Radicals

$\sqrt[2]{49}$ The Square Root of 49

① Think of a Radical as being a number that when raised to the power of the Index gives us the Radicand.

What is a Radical?

* what is the number?

7 why?
Because $7^2 = 7 \cdot 7 = 49$ ✓

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Square Roots

$\sqrt{0} = 0$ why $0^2 = 0 \cdot 0 = 0$

$\sqrt{1} = 1$ " $1^2 = 1 \cdot 1 = 1$

$\sqrt{2} =$

$\sqrt{3} =$

} Irrational Numbers

$\sqrt{4} = 2 \rightarrow 2^2 = 2 \cdot 2 = 4$

$\sqrt{5}$

$\sqrt{6}$

$\sqrt{7}$

$\sqrt{8}$

} Irrational Numbers

$\sqrt{9} = 3 \rightarrow 3^2 = 9$

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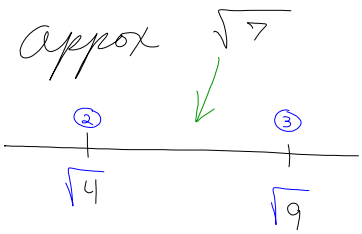
approx $\sqrt{7}$



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Perfect Roots of Variables

Square Roots

$\sqrt[2]{x^2} = x$

$\sqrt{x \cdot x}$

How many groups of "two" x's are there? one group

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$\sqrt{x^2} = x^1$

$\sqrt{x^4} = x^2$

$\sqrt{x^6} = x^3$

$\sqrt{x^8} = x^4$

$\sqrt{x^{10}} = \sqrt{x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x}$

$= x^5$

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hw # 3 on 8.1 (#1 – #30)

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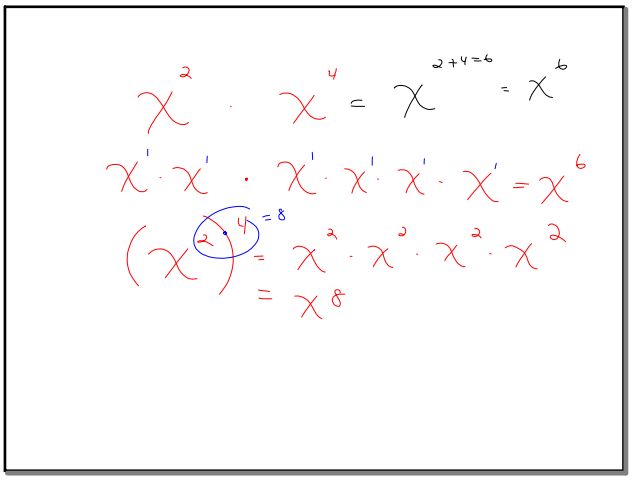

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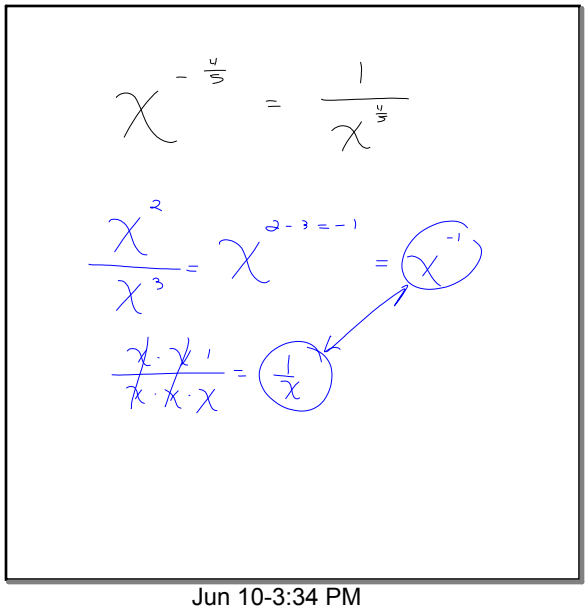

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