Radicals Example Problems

April 30, 2020

$$\frac{\sqrt{48}}{3^{1/2}}$$

$$\frac{\sqrt{48}}{3^{1/2}} = \frac{\sqrt{48}}{\sqrt{3}}$$

$$\frac{\sqrt{48}}{\sqrt{3}} = \sqrt{\frac{48}{3}}$$

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\sqrt{16}
=
4
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$$(\frac{1}{4})^{-1/4} \times (64)^{-1/4}$$

$$(\frac{1}{4})^{-1/4} \times (64)^{-1/4}$$

$$= (\frac{64}{4})^{-1/4}$$

$$(16)^{-1/4} = \frac{1}{(16)^{1/4}}$$

$$\frac{1}{(16)^{1/4}} = \frac{1}{2}$$

$$\frac{(4)^{1/5}}{\sqrt[5]{128}}$$

$$\frac{(4)^{1/5}}{\sqrt[5]{128}} = \sqrt[5]{\frac{4}{128}}$$

$$\sqrt[5]{\frac{4}{128}} = \sqrt[5]{\frac{1}{32}}$$

$$\sqrt[5]{\frac{1}{32}}$$

$$= \frac{1}{\sqrt[5]{32}}$$

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\frac{1}{\sqrt[5]{32}} = \frac{1}{2}
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Congrats!

I hope you learned something and enjoyed this video!