

$$\sqrt[3]{4x-2} = \sqrt[3]{x+13}$$

#2 $\sqrt{2x+10} + 12 = 6$

Apr 16-8:56 AM

Solving Radical Equations

$$\sqrt{5x+10} = x+2$$

Apr 14-8:41 AM

LT 7.2

Textbook Chapter
7.2B

I can **solve** equations
with **radical** expressions and
expressions with rational
exponents.

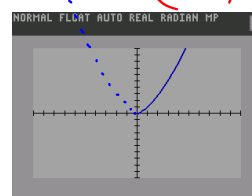
Jun 10-9:15 AM

Equations with Rational Exponents

$$\left(x^{\frac{2}{3}}\right)^{\frac{3}{2}} = 64$$

$$x = (64)^{\frac{2}{3}}$$

$$x = 16$$



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Equations with Rational Exponents

$$2x^{\frac{3}{2}} = 250$$

$$\left(x^{\frac{3}{2}}\right)^{\frac{2}{3}} = \left(\frac{250}{2}\right)^{\frac{2}{3}}$$

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Equations with Rational Exponents

ex. 2

$$\left((2x)^{\frac{1}{2}}\right)^2 = (8)^2$$

$$\frac{2}{2}x = \frac{64}{2}$$

$$x = 32$$

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Equations with Rational Exponents

ex. 3

$$8 = 2x^{\frac{1}{2}} + 4$$

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Equations with Rational Exponents

ex. 4

$$-2 + (3x - 11)^{\frac{2}{3}} = 6$$

$$\left((3x - 11)^{\frac{2}{3}} \right)^{\frac{3}{2}} = (8)^{\frac{3}{2}}$$

$$\left. \begin{array}{l} 3x - 11 = 22.6 \\ +11 \quad +11 \end{array} \right\}$$

$$\underline{\underline{3x = 33.6}}$$

$$x = 11.2$$

$$\left. \begin{array}{l} 3x - 11 = -22.6 \\ \underline{\underline{3x = -11.6}} \end{array} \right\}$$

$$x = -3.8\bar{3}$$

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Equations with Rational Exponents

ex. 5

$$27 = 3(x + 1)^{\frac{4}{2}}$$

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Algebra...

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

Solution?

May 26-8:33 AM

$$\sqrt{2x - 1} = \sqrt{x + 4}$$

May 26-8:33 AM

Solving Radical Equations

$$\sqrt[3]{2x - 1} = \sqrt[3]{4x - 5}$$

May 26-8:34 AM

$$\sqrt{2x-1} + 4 = -5$$

May 26-8:35 AM