

Pre-calculus 12

Unit 4 Exponents and Logarithms Solving Equations Involving Exponents Lesson 2

2.2 Solving Equations when the Base is a Variable

Step 1 Determine the reciprocal of the exponent.

Solve for x : $(\frac{x^3}{2})^2 = 27$

the reciprocal of $\frac{3}{2}$ is $\frac{2}{3}$

Step 2 Raise both sides to the reciprocal exponent.

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

Step 3 Now simplify and solve for x

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

$x^{\frac{3}{2} \times \frac{2}{3}} = (\sqrt[3]{27})^2$

$x^1 = (3)^2$

$x = 9$

Rational Exponent Law

$x^{\frac{a}{b}} = \sqrt[b]{x^a}$ or $(\sqrt[b]{x})^a$

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