

Solving Equations Using Square and Cube Roots

Notes	Video Links & Practice Space
<p>Vocabulary</p> <ol style="list-style-type: none"> Cube Root: a factor of a number that, when _____ by itself _____ times, equals the original number Real Numbers: the set of all _____ and _____ numbers Square Root: a factor of a number that, when _____ by itself, equals the original number 	<p>Vocab (0:45)</p>
<p>Solving Equations using Square Root</p> <p>Whenever you are going to find the inverse of an exponent, you are going to take the _____.</p> $x^2 = 36$ <p>*Remember! - The product of two negative numbers is a _____ number*</p> <p>If the number is a _____ number, such as 36 in our above example, the equation will always have _____ real number solutions.</p>	<p>Square Root (1:20)</p>

Solving Equations using Cube Root

$$x^3 = 8$$

Cube root solutions _____ from square root solutions. A positive number cubed and a negative number cubed do _____ equal the same value. Equations with a cube root will result in _____ solution.

[Cube Root \(1:14\)](#)

Practice Problems 1

$$x^3 = -343$$

$$x^2 = 144$$

[Practice 1 \(2:22\)](#)

Practice Problems 2

$$x^2 = 81$$

$$x^3 = 1$$

[Practice 2 \(2:01\)](#)