Alg2CP Unit 06 (Chapter 6): Radical Functions and Rational Exponents

Content Area: Math

Course(s): Level 1 Engineering Drawing, Algebra 2 CP, Algebra 2 A, Algebra 2 H

Time Period: Marking Period 2

Length: **4 weeks** Status: **Published**

Unit Introduction

Standards

MA.N-RN.A.1	Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents.
MA.N-RN.A.2	Rewrite expressions involving radicals and rational exponents using the properties of exponents.
MA.A-SSE.A.2	Use the structure of an expression to identify ways to rewrite it. For example, see $x^4 - y^4$ as $(x^2)^2 - (y^2)^2$, thus recognizing it as a difference of squares that can be factored as $(x^2 - y^2)(x^2 + y^2)$.
MA.A-CED.A.4	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.
MA.A-REI.A.2	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.

Essential Questions

- How are a function and its inverse function related?
- When you square each side of an equation, is the resulting equation equivalent to the original?

Content

- Sec 6.1 Roots and Radical Expressions (pg. 361)
- Sec 6.4 Rational Exponents (pg. 381)
- Sec 6.5 Solving Square Root and Other Radical Equations (pg. 390)

Skills

- · Covert radicals to rational exponent
- · Simplify exponential expressions

Simplify radicals