

1200/1200 Mastery points Intro to polynomials Multiplying monomials by polynomials Average rate of change of polynomials Multiplying binomials by polynomials Adding and subtracting polynomials Special products of polynomials 900/900 Mastery points Complex numbers Adding and subtracting complex numbers The imaginary unit i Complex numbers introduction Multiplying complex numbers Quadratic equations with complex solutions The complex plane 1000/1000 Mastery points Polynomial factorization Factoring monomials Factoring higher degree polynomials Factoring using structure Greatest common factor Taking common factors Polynomial identities Geometric series

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800/800 Mastery points Polynomial division Dividing polynomials by x Polynomial Remainder Theorem Dividing quadratics by linear factors Dividing polynomials by linear factors 500/500 Mastery points Polynomial graphs

Zeros of polynomials Putting it all together Positive and negative intervals of polynomials End behavior of polynomials 1000/1000 Mastery points Rational exponents and radicals Rational exponents Equivalent forms of exponential expressions

Evaluating exponents & radicals 500/500 Mastery points **Exponential models** Interpreting the rate of change of exponential models

Properties of exponents (rational exponents)

Introduction to logarithms

Shifting functions

Rational functions

Constructing exponential models according to rate of change

Solving exponential equations using properties of exponents

The change of base formula for logarithms

Advanced interpretation of exponential models 900/900 Mastery points Logarithms

Solving exponential equations with logarithms The constant e and the natural logarithm Properties of logarithms Solving exponential models 1000/1000 Mastery points **Transformations of functions**

Graphs of square and cube root functions Reflecting functions Graphs of exponential functions Symmetry of functions Scaling functions Graphs of logarithmic functions 1000/1000 Mastery points Equations

Putting it all together

Rational equations **Cube-root equations** Square-root equations Quadratic systems Extraneous solutions Solving equations by graphing 1700/1700 Mastery points Trigonometry

Graphs of sin(x), cos(x), and tan(x) Unit circle introduction Amplitude, midline and period Radians The Pythagorean identity Transforming sinusoidal graphs Trigonometric values of special angles Graphing sinusoidal functions Sinusoidal models

Modeling Modeling with function combination Modeling with two variables Interpreting features of functions Modeling with multiple variables Manipulating formulas

Cancelling common factors Modeling with rational functions Multiplying and dividing rational expressions End behavior of rational functions Adding and subtracting rational expressions intro Discontinuities of rational functions Graphs of rational functions Adding and subtracting rational expressions (factored) Adding and subtracting rational expressions (not factored)

Course challenge: 100% 2 months ago Amazing work! Looks like you really know your stuff! Take Course challenge again

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800/800 Mastery points

1400/1400 Mastery points

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