Horizontal & vertical lines

Systems of equations

Inequalities (systems & graphs)

Checking solutions of two-variable inequalities

**Evaluating functions** 

Sequences

Absolute value & piecewise functions

Inputs and outputs of a function

1100/1100 Mastery points

1500/1500 Mastery points

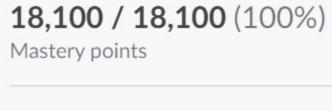
1400/1400 Mastery points

600/600 Mastery points

Mastery unavailable 🔞

## Math Algebra 1

Not feeling ready for this? Check out Get ready for Algebra 1.



Course summary

Mastery challenge ① Strengthen skills you've already practiced in just 6 questions. **Get started** 700/700 Mastery points Algebra foundations

Overview and history of algebra Combining like terms Introduction to equivalent expressions Introduction to variables Substitution and evaluating expressions Division by zero

1100/1100 Mastery points Solving equations & inequalities Linear equations with unknown coefficients

Linear equations with variables on both sides Linear equations with parentheses Multi-step inequalities Analyzing the number of solutions to linear equations Compound inequalities

400/400 Mastery points Working with units Rate conversion Appropriate units Word problems with multiple units

1500/1500 Mastery points Linear equations & graphs Two-variable linear equations intro x-intercepts and y-intercepts Applying intercepts and slope Slope

Forms of linear equations Intro to slope-intercept form Point-slope form Graphing slope-intercept equations Standard form Writing slope-intercept equations Summary: Forms of two-variable linear equations

Equivalent systems of equations Introduction to systems of equations Solving systems of equations with substitution Number of solutions to systems of equations Solving systems of equations with elimination Systems of equations word problems 800/800 Mastery points

Graphing two-variable inequalities Modeling with linear inequalities 2200/2200 Mastery points **Functions** 

Recognizing functions

Maximum and minimum points

Functions and equations Intervals where a function is positive, negative, increasing, or... Interpreting features of graphs Interpreting function notation Introduction to the domain and range of a function Average rate of change Determining the domain of a function Average rate of change word problems Intro to inverse functions

Introduction to arithmetic sequences Constructing geometric sequences Constructing arithmetic sequences Modeling with sequences Introduction to geometric sequences General sequences

Graphs of absolute value functions Piecewise functions 900/900 Mastery points **Exponents & radicals** 

Exponent properties review Radicals Simplifying square roots 1300/1300 Mastery points Exponential growth & decay

Exponential vs. linear growth over time Exponential vs. linear growth **Exponential expressions** Exponential growth & decay Graphs of exponential growth Exponential functions from tables & graphs Exponential vs. linear models 1500/1500 Mastery points Quadratics: Multiplying & factoring

Multiplying monomials by polynomials Factoring quadratics intro Multiplying binomials Factoring quadratics by grouping Special products of binomials Factoring quadratics with difference of squares Introduction to factoring Factoring quadratics with perfect squares Strategy in factoring quadratics

3100/3100 Mastery points Quadratic functions & equations Completing the square Intro to parabolas Solving and graphing with factored form Strategizing to solve quadratic equations Solving by taking the square root Quadratic standard form Features & forms of quadratic functions Vertex form Solving quadratics by factoring Comparing quadratic functions The quadratic formula Transforming quadratic functions

Irrational numbers Sums and products of rational and irrational numbers Proofs concerning irrational numbers

Amazing work! Looks like you really know your stuff!

Course challenge: 100% 3 months ago

Irrational numbers

Take Course challenge again



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