Missouri Mathematics Priority Standards

Algebra I

Seeing Structure in Expressions

A Interpret and use structure. A1.SSE.A

1 Interpret the contextual meaning of individual terms or factors from a given problem that utilizes formulas or expressions. A1.SSE.A.1

2 Analyze the structure of polynomials to create equivalent expressions or equations. A1.SSE.A.2

Creating Equations

A Create equations that describe linear, quadratic and exponential relationships. A1.CED.A

1 Create equations and inequalities in one variable and use them to model and/or solve problems. A1.CED.A.1

Reasoning with Equations and Inequalities

A Understand solving equations as a process, and solve equations and inequalities in one variable. A1.REI.A

2c Analyze different methods of solving quadratic equations. A1.REI.A.2C

C Represent and solve linear and exponential equations and inequalities graphically. A1.REI.C

6 Explain that the graph of an equation in two variables is the set of all its solutions plotted in the Cartesian coordinate plane. A1.REI.C.6

8 Solve problems involving a system of linear inequalities. A1.REI.C.8

Interpreting Functions

B Interpret linear, quadratic and exponential functions in terms of the context. A1.IF.B

3 Using tables, graphs and verbal descriptions, interpret key characteristics of a function that models the relationship between two quantities. A1.IF.B.3

C Analyze linear, quadratic and exponential functions using different representations. A1.IF.C

7 Graph functions expressed symbolically and identify and interpret key features of the graph. A1.IF.C.7

Building Functions

A Build new functions from existing functions (limited to linear, quadratic and exponential). A1.BF.A

Analyze the effect of translations and scale changes on functions. A1.BF.A.1

Skip to main content

Linear, Quadratic and Exponential Models

A **Construct and compare linear, quadratic and exponential models and solve problems.** A1.LQE.A

3 Construct linear, quadratic and exponential equations given graphs, verbal descriptions or tables. A1.LQE.A.3

B **Use arithmetic and geometric sequences.** A1.LQE.B

4 Write arithmetic and geometric sequences in recursive and explicit forms, and use them to model situations and translate between the two forms. A1.LQE.B.4

Data and Statistics

A **Summarize, represent and interpret data.** A1.DS.A

1 Analyze and interpret graphical displays of data. A1.DS.A.1