

Algebra Ladder

Each color group of statements is a subset of the standards from a single grade level from K to Math 4. Cut and rearrange them into the correct order. Try to do this without using the curriculum.

Analyze and describe relationships between varying quantities
Solve simple equations

Understand relationships between two variables

Explore and interpret the characteristics of functions, using graphs, tables, and simple algebraic techniques.

Build number patterns using various concrete representations

Analyze graphs of polynomial functions of higher degree
Explore logarithmic functions as inverses of exponential functions

Represent and interpret quantities and relationships using mathematical expressions and symbols ($=$, $<$, $>$)

Use variables, such as n or x , for unknown quantities in algebraic expressions
Investigate simple algebraic expressions by substituting numbers for the unknown

Explore rational functions
Use the circle to define the trigonometric functions.
Students will investigate and use the graphs of trigonometric functions
Investigate different types of functions; transformations of functions

Understand and apply patterns and rules to describe relationships and solve problems
Represent unknowns using symbols, such as $_$ and Δ
Write and evaluate mathematical expressions using symbols and different values

Identify, create, extend and transfer patterns from one representation to another

Gather data that can be modeled with a linear function
Estimate and determine a line of best fit from a scatter plot

Describe and explain a quantitative relationship represented by a formula
Use a symbol to represent an unknown and find its value in a number sentence

Investigate step and piecewise functions
Explore exponential functions.
Analyze quadratic functions.

Algebra Ladder Solutions

These are in order from K to Math 4.

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