

Algebra Matrix (Functions and Equations)

	Altitude to the Hypotenuse	Modifying the Slope and Y-Intercept	Equation of a Tangent	Multiple Solutions	Multiple Inequalities	Coefficients that Affect the Graph	Moving Parabolas	End Behavior	Intersecting Functions	Efficient Fencing	Arranging Toothpicks	Supper with Skiing	Gretel's Goldfish	Bouncing Ball	Clothes Shopping	Distance to a Point in a Rectangle	Intersecting Chords
Linear		X	X	X	X			X	X	X	X	X	X	X	X		X
Nonlinear	X		X	X		X	X	X	X				X			X	
Tables					X					X	X	X	X	X	X	X	
Equations	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
Graphs		X	X	X	X	X	X		X				X		X		
Slope and Intercepts		X	X														
Analyze		X	X	X		X	X	X	X			X	X	X	X		
Generalize	X		X			X	X	X	X	X	X	X	X			X	X
Predict						X			X		X	X	X	X	X	X	X
Variables	X	X	X	X		X	X	X	X	X		X	X		X	X	X
Recognizing equivalent forms	X			X													
Solves linear equations		X							X				X		X		
Multiple Representations	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X

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	Edge, Face, Vertex	Area of a Kite	Segments on a Secant	Twice Reflected over Intersecting Lines	Twice Reflected over Parallel Lines	Varied Slopes and Intercepts	Unusual Property	Burglar Alarm	Composite Functions	Catching Up in Savings	Swapping Coordinates	Solutions in a System	Input Equals Output	In Between	Crossing Curves	Fractional Forms of Repeating Decimals	Zero Coefficients
Linear	X	X	X	X	X	X		X	X		X	X	X				X
Nonlinear										X	X	X	X	X	X		
Tables	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Equations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Graphs				X	X	X				X	X	X			X		X
Slope and Intercepts						X											X
Analyze		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Generalize	X	X	X	X	X	X	X		X		X	X	X			X	X
Predict			X	X	X	X	X					X			X	X	
Variables	X	X	X				X		X		X		X	X	X	X	X
Recognizing equivalent forms			X	X				X								X	
Solves linear equations	X	X										X					
Multiple Representations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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	Changing Intercepts	Triangle from a Line	Does 0=0?	Finding the Maximum	Minimum Criteria	Fundamental Theorem of Algebra	Symmetry of Polynomial Functions	Using Roots to Generate an Equation	Exponential Functions	Absolute Value Functions and Transformations	Reciprocal Functions	Discriminant	Forming a Square	Sliding Graph	Shifting Parabolas	The Life of a Natural Number
Linear		X	X		X	X	X						X	X		
Nonlinear	X			X	X	X	X	X	X	X	X	X			X	X
Tables	X		X	X					X	X	X			X	X	X
Equations	X		X			X	X	X	X	X	X	X	X	X	X	X
Graphs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Slope and Intercepts		X	X								X	X	X	X	X	
Analyze	X	X	X	X	X	X	X	X	X	X	X	X			X	
Generalize	X	X	X	X	X	X	X	X		X	X		X	X	X	X
Predict	X			X		X	X		X	X		X	X	X	X	X
Variables		X	X	X		X			X	X	X	X	X	X	X	X
Recognizing equivalent forms					X			X			X					
Solves linear equations		X	X		X	X	X						X	X		
Multiple Representations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Algebra Matrix: Functions

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	Earthquake Intensity	Heron's Area	Piano Frequency	Altered State	Comparing Temperatures	Pricing Pizzas	Population Changes	Units of Speed	Keith's Pocket	Symbolic Algebra	Remainders and Factors	Reciprocal Sums	Three Daughters	Piggy Savings	The Frog Race	Walking Rates	Counting Coins	How Did We Do?	Formulaic Properties
Linear					X			X						X	X	X	X	X	
Nonlinear	X		X	X		X	X												
Tables	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
Equations	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X
Graphs			X			X	X							X		X			
Slope and Intercepts						X													
Analyze	X	X	X	X	X	X	X	X			X			X				X	X
Generalize	X	X	X	X	X			X	X	X	X	X			X	X		X	X
Predict	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	
Variables	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X
Recognizing equivalent forms						X											X		
Solves linear equations					X			X						X	X	X	X	X	
Multiple Representations	X	X	X		X	X	X	X	X		X			X		X			

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	Legs and Seats	The Gonzalez Family	The Game Show	Collecting Baseball Cards	Lucky Find	Choosing Salaries	Unknown Distance	Integer Function	Nails in a Pail	Bouncing Ball	Number Machine	Summing to 100	Largest Combination	Family Math	Double Trouble	Judy's Gift	Double Dollars	Sales Options	Library Fines
Linear						X	X		X		X			X	X	X		X	X
Nonlinear			X	X		X		X		X							X		
Tables	X	X		X		X		X	X	X	X		X	X		X	X	X	X
Equations	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X
Graphs						X				X	X						X	X	
Slope and Intercepts																			
Analyze	X	X	X		X	X				X		X		X	X	X		X	X
Generalize								X	X		X		X						
Predict	X			X		X			X	X							X		
Variables	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
Recognizing equivalent forms							X		X			X							
Solves linear equations						X	X		X		X			X	X	X		X	X
Multiple Representations	X			X		X	X		X	X	X						X	X	

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	Going to the Movies	Phone Tree	Paper Folding	Palindrome Odometer	Mystery Number	Taking Classes	Bouncing Ball (CBL)	Chill Out (CBL)	It's Getting Darker (CBL)	Don't Push It (CBL)	Cereal Bars	Properties of Parabolas	Slopes and angles of elevation	Comparing Lines	Solving Graphically	Intersecting Graphs	Maximums of Functions	X-Intercept Transformation	The Slope of a Curve
Linear				X	X	X				X	X		X	X	X	X	X	X	
Nonlinear	X	X	X				X	X	X			X				X	X	X	X
Tables	X			X	X	X	X	X	X	X	X	X		X	X		X		
Equations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Graphs	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Slope and Intercepts													X	X	X	X		X	
Analyze	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Generalize	X	X									X	X	X	X	X	X	X	X	
Predict											X	X				X	X		X
Variables	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Recognizing equivalent forms														X	X				
Solves linear equations				X	X	X					X		X	X	X		X		
Multiple Representations	X		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X

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Algebra Matrix: Functions

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	Equation of a Circle	Medians of a Triangle	Price of a Car	Late to School	Holy Graphs	Different Measures of Center	Reflecting Coordinates	Specific Slopes	Dilating Coordinates	Twice Reflecting over Parallel Lines	Mean Vertex	Splitting Areas	Rotating Coordinates	Globs	I've Sunk Your Battleship	Mining Through Coordinates	Intersecting Lines	Travel of Ant Z on a Parabola
Linear			X		X		X	X	X	X	X	X		X			X	
Nonlinear	X		X	X														X
Tables		X	X						X	X	X	X					X	
Equations	X	X			X		X	X	X	X	X	X		X	X	X		X
Graphs	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X
Slope and Intercepts				X			X	X	X					X				X
Analyze	X	X	X	X	X	X			X	X	X	X	X					X
Generalize	X	X	X	X	X	X	X		X	X	X	X	X					X
Predict			X		X		X		X	X	X	X		X	X	X	X	
Variables	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	X
Recognizing equivalent forms																		
Solves linear equations							X	X			X			X				
Multiple Representations		X			X			X	X				X					X

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