

Algebra 2 Grid Games Table of Contents

Rules for playing Grid Games
Suggestions

I. EQUATIONS

Two-step Equations

Solve each two step equation

Multi-step Equations

Solve each multi-step equation

Literal Equations

Solve each equation involving numerous variables for one variable X

II. INEQUALITIES

Inequalities

Identify each inequality graphed on a number line

Inequalities 2

Solve each inequality

III. POLYNOMIALS

Polynomial Add and Subtract

Simplify each polynomial using addition and subtraction

Multiplying Polynomials

Simplify each polynomial using multiplication

Dividing Polynomials

Simplify each cubic function by a binomial

Factoring Polynomials

Factor each trinomial of highest power 2.

Factoring Polynomials 2

Factor each polynomial using trinomial factoring and sum and difference of cubes

Factor and Solve

Factor each quadratic and cubic function and then solve.

Quadratic Formula

Set up each quadratic using the quadratic formula

Solving Quadratics

Solve each quadratic using the quadratic formula

IV. QUADRATIC FUNCTIONS

Max or Min

Determine the vertex of each quadratic graph and identify it as a min or max value

Quadratic Functions

Identify each quadratic function graphed

Quadratic Functions 2

Given the function, identify the vertex

Intercepts

Identify the x and y-intercepts of each function

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V. POLYNOMIAL FUNCTIONS

Transformations

Describe the transformation listed

Identify Transformations

Given the graph, identify the transformation graphed

Domain

Find the domain of each function

Asymptotes

Find the vertical and horizontal asymptotes of each function

VI. RADICALS AND EXPONENTS

Square Roots

Simplify each square root involving operations

Square Roots 2

Simplify each more complex square root involving operations

Rational Exponents

Rewrite each rational expression using radicals

Radical Rewrite

Rewrite each radical expression in rational exponent form.

VII. LOGARITHMS

Logarithms

Solve each logarithm

Rewriting Logs and Natural Logs

Rewrite each log or natural log in exponent form

VIII. FUNCTIONS

Functions

Use function rules to solve each function

Inverse Functions

Find the inverse of each function

IX. MISCELLANEOUS

Conics

Identify the conic section described and find the vertex or center

Matrices

Perform operations given matrices

Systems of Equations 1

Solve each system of equations involving 2 variables.

System of Equations 2

Solve each system of equations involving 3 variables.