

Algebra Honors Worksheet Answers

(These links are names of the lessons. The worksheet may have a different name.)

[Real Numbers](#)

[Algebraic Expressions](#)

[Solving Equations](#)

[Writing, Creating, and Solving Equations](#)

[Ratio and Proportion](#)

[Percents; Percent of Increase and Decrease](#)

[Probability of Events](#)

[Arithmetic and Algebra](#)

[Representing Numbers Using Letters](#)

[Integers on the Number Line](#)

Adding Integers

Subtracting Integers

Multiplying Integers

Dividing Positive and Negative Integers

Simplifying Expressions - One Variable

Simplifying Expressions - Several Variables

Positive Exponents

Formulas with Variables

Application: Using a Formula

Modeling Expressions: Algebra Tiles

Commutative Property of Addition

Commutative Property of Multiplication

Associative Property of Addition

Associative Property of Multiplication

The Distributive Property - Multiplication

The Distributive Property - Factoring

Properties of Zero

Properties of 1

Powers and Roots

More on Powers and Roots

Order of Operations

Application: Using Square Root

Properties of Real Numbers: Calculator

Writing Equations

Solving Equations: $x - b = c$

Solving Equations: $x + b = c$

Solving Multiplication Equations

Solving Equations with Fractions

Solving Equations - More than One Step

Equations Without Numbers

Formulas

The Pythagorean Theorem

Inequalities on the Number Line

Solving Inequalities with One Variable

Application: Using Equations

Modeling Equations: Algebra Balance

Writing Equations - Odd and Even Integers

Using the 1% Solution to Solve Problems

Using the Percent Equation

Solving Distance, Rate, and Time Problems

Using a Common Unit - Cents

Calculating Simple Interest

Deriving a Formula for Mixture Problems

Ratio and Proportion

Application: Using Proportions

Using Formulas: Calculator

Exponents

Negative Exponents

Exponents and Scientific Notation

Computing in Scientific Notation

Defining and Naming Polynomials

Adding and Subtracting Polynomials

Multiplying Polynomials

Special Polynomial Products

Dividing a Polynomial by a Monomial

Dividing a Polynomial by a Binomial

Polynomials in Two or More Variables

Application: Polynomial Interest

Modeling Polynomials: Algebra Tiles

Greatest Common Factor

Factoring Polynomials

Factoring Trinomials: $x^2 + bx + c$

Factoring Trinomials: $ax^2 + bx + c$

Factoring Expressions: $a^2 - b^2$

Factoring Expressions: $a^2 + 2ab + b^2$

Zero as a Factor

Solving Quadratic Equations - Factoring

Application: Frame Factor

Factoring Polynomials: Algebra Tiles

Organizing Data

Range, Mean, Median, and Mode

Box-and-Whiskers Plot

The Probability Fraction

Probability and Complementary Events

Tree Diagrams and Sample Spaces

Dependent and Independent Events

The Fundamental Principle of Counting

Application: Multistage Experiments

Fundamental Counting Principle: Calculator

Fractions as Rational Numbers

Algebraic Fractions - Rational Expressions

Multiplying and Dividing Algebraic Fractions

Complex Fractions and the LCM

Least Common Multiples and Prime Factors

Sums and Differences

Proportions and Fractions in Equations

More Solutions to Equations with Fractions

Denominators and Zero

Application: Working with Fractions

Simplifying Expressions: Calculator

The Coordinate System

Graphing Equations

Intercepts of Lines

Slopes of Lines

Writing Linear Equations

Lines as Functions

Domain and Range of a Function

Graphing Inequalities: $y < mx + b$, $y > mx + b$

Graphing Inequalities: $y \leq mx + b$, $y \geq mx + b$

Graphs Without Numbers

Application: Graphing

Slope and Intercept: Grapher

Parallel Lines

Describing Parallel Lines

Intersecting Lines - Common Solutions

Solving Linear Equations - Substitution

Solving Linear Equations - Elimination

Graphing Systems of Linear Equations

And Statements - Conjunctions

Problem Solving Using Linear Equations

Introduction to Matrices: Addition and Subtraction

Multiplication of Matrices

Application: Using Venn Diagrams

Common Solution: Grapher

Rational Numbers as Decimals

Rational Number Equivalents

Irrational Numbers as Decimals

Products and Quotients of Radicals

Sums and Differences of Radicals

Radicals and Fractions

Radicals in Equations

Radicals and Exponents

Drawing and Using a Square Root Graph

Application: Falling Objects

Powers and Roots: Calculator

Angle and Angle Measure

Pairs of Lines in Plane and in Space

Angle Measures in a Triangle

Naming Triangles

Quadrilaterals

Congruent and Similar Triangles

Trigonometric Ratios

Application: Using Geometric Shapes

Trigonometric Ratios: Calculator

Solutions by Factoring

Writing the Equations from Their Roots

Solving by Completing the Square

Solving Using the Quadratic Formula

Graphing Quadratic Equations

Application: Using Quadratic Equations

Modeling Quadratic Equations: Grapher