

Rising Ninth Grade – Summer Work
Select Algebra 1

D.2Solve percent equations

E.1Convert rates and measurements:
customary units

G.1Coordinate plane review

H.1Properties of addition and
multiplication

I.7Solve equations using order of
operations

J.6Solve equations with variables on both
sides

J.7Solve equations: complete the solution

K.6Solve one-step linear inequalities

O.1Word problems: mixed review

Q.5Identify functions: vertical line test

Q.7Evaluate a function

S.3Find the slope from two points

S.5Slope-intercept form: find the slope
and y-intercept

S.6Slope-intercept form: graph an
equation

S.15Write equations in standard form

S.16Standard form: find x- and y-
intercepts

S.18Equations of horizontal and vertical
lines

S.19Graph a horizontal or vertical line

S.24Write an equation for a parallel or
perpendicular line

T.3Graph a two-variable linear inequality

T.5Is (x, y) a solution to the system of
inequalities?

U.2Solve a system of equations by
graphing

U.8Solve a system of equations using
substitution

U.10Solve a system of equations using
elimination

V.3Negative exponents

V.6Multiplication and division with
exponents

V.7Power rule

W.1Convert between standard and
scientific notation

X.1Evaluate an exponential function

Y.4Multiply and divide monomials

Y.5Powers of monomials

Z.4Add and subtract polynomials

Z.8Multiply two binomials

Z.10Multiply polynomials

AA.4Factor quadratics with leading
coefficient 1

AA.5Factor quadratics with other leading
coefficients

AA.7Factor by grouping

BB.5Solve a quadratic equation using
square roots

BB.6Solve a quadratic equation using the
zero-product property

BB.7Solve a quadratic equation by
factoring

BB.10Solve a quadratic equation using
the quadratic formula

BB.11Using the discriminant

CC.1Identify linear, quadratic, and
exponential functions from graphs

DD.2Graph an absolute value function

EE.7Simplify radical expressions: mixed
review

FF.4Solve radical equations I