Instructional Flow — Unit 3 — Systems of Linear Equations and Inequalities

Section 3.6	• solutions to systems of two linear equations numerically, graphically, and algebraically in slope-intercept form • solutions to systems of two linear equations numerically, graphically, and using the substitution method • interpretation of a solution to a system of two linear equations in context

Section 3.7	• representation of real-world problems as systems of equations • solutions to systems of two linear equations by any method • determination of the break-even point of a linear system algebraically and graphically • interpretation of a break-even point in context

IG: Linear Equations in Standard Form	• standard form of a linear equation • solutions to systems of linear equations in two variables by elimination (linear combinations) • equivalency of linear equation forms • systems with no solutions and infinite numbers of solutions • determination of the most efficient solution method

IG: Operations with Matrices	• matrix definition and vocabulary • addition, subtraction, and scalar multiplication of matrices • applications of matrices in real-world contexts

IG: Matrices	• matrix multiplication • determinant of a matrix • the inverse of a square matrix • applications of matrix multiplication, determinants, and inverse matrices including cryptography

IG: Solving Systems of Linear Equations Using Matrices	• representation and matrix solutions to systems of equations • solution to systems of linear equations in two variables in real-world contexts

Section 3.9	• representations and solutions to linear inequalities in one variable • representations and solutions to compound inequalities

Section 3.8	• solutions to systems of linear inequalities in two variables • linear inequalities in real-world contexts • linear programming