

Unit: 5. Linear Systems

VOCABULARY

coefficient	the constant preceding the variables in a product
consistent equations	A system of linear equations that contain at least one common point.
dependent equations	A system of linear equations that rely on each other for the algebraic or graphic form of the equation.
determinant	the value of: (row 1, column 1)(row 2 column 2) - (row 1, column 2)(row 2, column 1) in a 2 by 2 matrix
equivalent equations	equations having all common solutions
inconsistent equations	A system of linear equations that do not contain any common points.
independent equations	A system of linear equations that do not rely on each other for the algebraic or graphic form of the equation.
infinitely many solutions	A set of linear equations that coincide and share every point as a point of intersection. Also known as a dependent and consistent solution.
linear inequality	an open sentence of the form $Ax + By + C < 0$ or $Ax + By + C > 0$
matrix	a rectangular array made up of rows and columns
no solution	A set of parallel lines that will never share a point of intersection. Considered to be an inconsistent solution.

one solution	A set of linear equations that share a common point known as the point of intersection (x,y). The solution, (x,y) is an independent and consistent solution.
standard form	the form $Ax + By = C$ of a <i>linear equation</i>
substitute	replace a quantity with its equal
system determinant	the determinant found when column 1 consists of the x-coefficients and column 2 consists of the y-coefficients of a linear system
x-determinant	the determinant found when column 1 consists of the constants and column 2 consists of the y-coefficients of a linear system
y-determinant	the determinant found when column 1 consists of the x-coefficients and column 2 consists of the constants of a linear system