absolute value

The distance of a number from zero on a number line.

Examples: The absolute value of \(+13\) is 13.
            The absolute value of \(-107\) is 107.
additive inverse

The opposite of a number. The sum of a number and its additive inverse is always zero.

Examples: $-3 + 3 = 0; -12 + 12 = 0$
algebraic expression

An expression that consists of one or more variables. It could contain some constants and some operations.

Example: \(2x + 3y + 6\)
A value by which a variable is multiplied.

Example: $2x$, $5x + 1$
coordinate plane

A system of coordinates formed by the perpendicular intersection of horizontal and vertical number lines.
function

A rule that pairs each input with one and only one output.
In a function, a value that is entered into the function to yield an output.
integers

The set of positive whole numbers, their opposites (negative numbers), and 0.

*Examples:* ..., −3, −2, −1, 0, +1, +2, +3, ...
inverse operations

Two operations that undo each other, such as addition and subtraction or multiplication and division.
linear function

A function whose graph is a straight line.
negative integer

The set of whole numbers less than 0.

Examples: \(-1, -5, -9\)
nonlinear function

A function whose graph is not a straight line.
opposite numbers

Two numbers that are the same distance from zero but are on opposite sides of zero on a number line.
ordered pair

A pair of numbers in which the first number is the \(x\)-coordinate and the second number is the \(y\)-coordinate.

*Examples:* \((4, 6) (0, 5)\)
origin

A point assigned to zero on the number line or the point where the x- and y-axis intersect in a coordinate system.
output

The amount produced from a specific input.
positive integer

The set of whole numbers greater than 0.

Examples: 1, 5, 9
The vertical difference between any two points on a line.

The rise from (5,0) to (5,4).
The horizontal difference between any two points on a line.

The run is from \((-\frac{1}{2},0)\) to \((5,0)\).
sequence

An ordered set of numbers.

Example: 19, 17, 15, 13....
slope

A measure of the slant or steepness of a line. Slope is the ratio of rise to run.
term

A number in a sequence.
x-coordinate

The first number of an ordered pair of numbers that names a point in a coordinate system.
The second number of an ordered pair of numbers that names a point in a coordinate system.

**y-coordinate**