

Characteristics of Linear Functions



Example Function

Linear Function Equation:

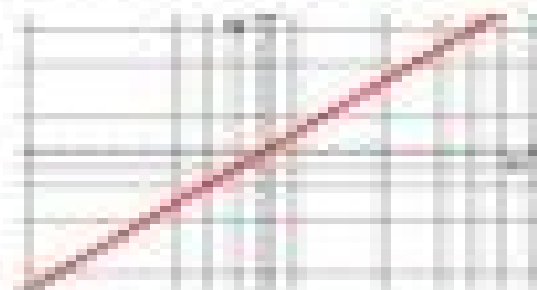
$$y = 2x + 1$$

Domain:

all real numbers or $(-\infty, \infty)$

Range:

all real numbers or $(-\infty, \infty)$



Table

x	y
-2	-3
-1	-1
0	1
1	3
2	5

- What pattern do you observe in the table and graph of the linear function? For each point, the x-value and y-value are equal, the x-increments are equal, and the y-increments are equal.

General Characteristics

Characteristics of linear functions (slope, y-intercept, and domain) have been addressed in previous math courses.

Sources of Linear Equations

Standard Form:

$$Ax + By = C, \text{ (both } A \text{ and } B \text{ are positive values)}$$

Slope-Slope Form:

$$y - y_1 = m(x - x_1)$$

Slope-Intercept Form:

$$y = mx + b$$

Slope-Intercept Form

In the slope-intercept form, slope (m) describes the rise (y) and b (the y-intercept) affects the graph of the linear function.

Changes caused by m

- $m = 0$, no change in slope of passing function
- $m > 0$, m is positive and the line increases from left to right
- $m < 0$, m is negative and the line falls from left to right
- $m > 1$, slope of the graph increases (steep)

Intercept (b)

- $b = 0$, no change in slope of the function (starts at the origin)

Changes caused by b

- $b > 0$, no change in y-intercept of passing function, starts at $y = 0$
- $b < 0$, vertical shift up for b units
- $b > 0$, vertical shift down for b units

Algebra Hs Mathematics Unit 1lesson 01

Jin-Ying Zhang



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