

Characteristics of Linear Functions: KEY

Linear Functions

Linear Function Equation:

$$y = mx + b$$

Slope:

Intercept(s) on x :

Range:

Intercept(s) on y :



Table

x	y
-2	0
-1	1
0	2
1	3
2	4
3	5
4	6

- 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 -intercept is the same, the slope is 1.

Characteristics of Linear Functions

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

Source of Linear Equations

Standard Form:

$ax + by = c$, where a and b are not both zero.

Slope-Intercept Form:

$y = mx + b$

Point-Slope Form:

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

Slope-Intercept Form

In the slope-intercept form, slope m describes the line's slope, 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
- $m < 0$: no change in slope of passing function
- $m > 0$: no change in slope of passing function
- $m < 0$: no change in slope of passing function
- $m > 0$: no change in slope of passing function
- $m < 0$: no change in slope of passing function

Changes caused by b

- $b > 0$: no change in slope of passing function
- $b < 0$: no change in slope of passing function
- $b > 0$: no change in slope of passing function
- $b < 0$: no change in slope of passing function
- $b > 0$: no change in slope of passing function
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