

SECTION 3.2: LINEAR FUNCTIONS

Homework: _____

Learning Targets:

- 3a. Understanding of determining if a relation is a function (linear or nonlinear).
- 3b. Understanding of when functions are discrete or continuous.

Linear Function: a non-_____ line. It has a _____ rate of change and looks like a _____. Usually written in the form _____

x	-2	1	4	7	10	13
y	8	6	4	2	0	-2

Nonlinear Function: a function that does NOT have a _____ rate of change.

Nonlinear functions have many forms

x	0	1	2	3	4	5
y	1	2	4	8	16	32

Discrete Domain: A set of input values with _____ values. A function is discrete if it cannot have _____.

Continuous Domain: A set of input values that consists of _____ values. A function is continuous if it CAN have _____.

Problems for the Left

Determine if the given function is linear or nonlinear

1. Table
2. Table
3. Graph
4. Graph
5. $2x = 3y - 4$
6. $3y^2 - 4x = 8$
7. $y = 4x(x + 5)$