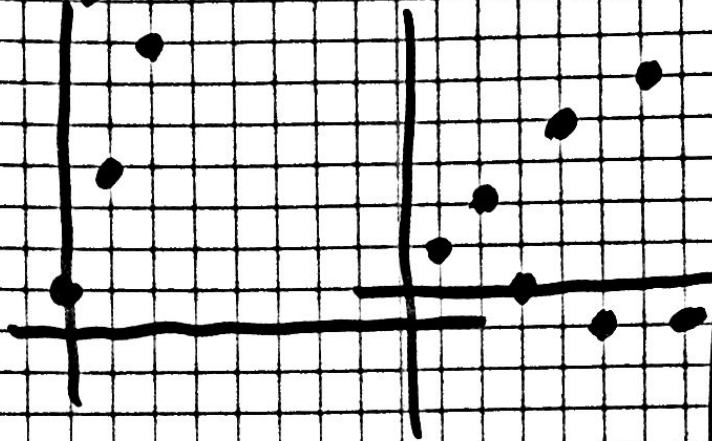


Discrete

- Just dots on Graph
- Goes in chunks

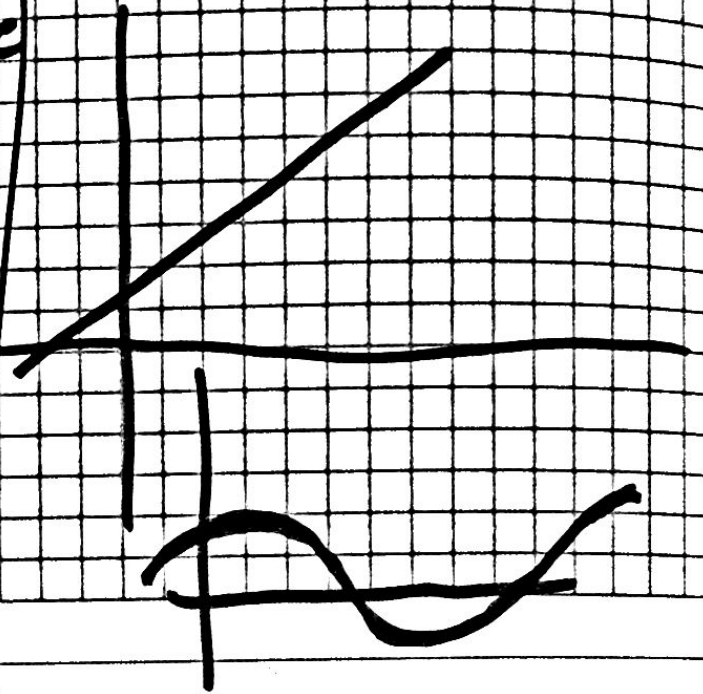
Sequences are Discrete



Arithmetic Sequence
Geometric Sequence

Continuous

- Connected with a line on the graph



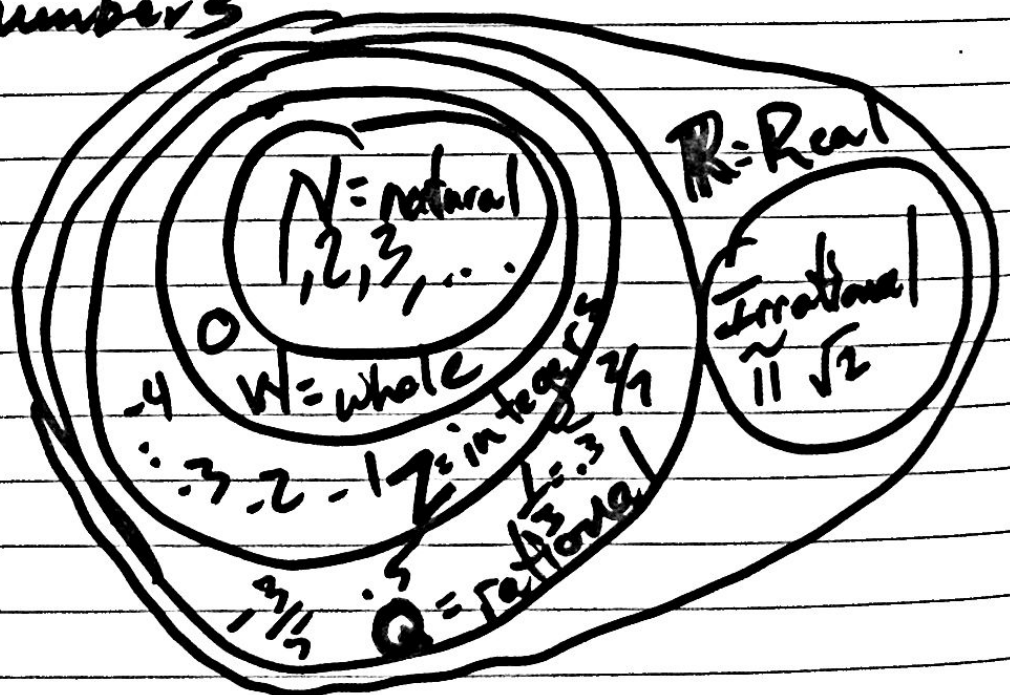
Domain (x-value, input independent, x-axis)

Domain

N = Natural numbers
W = Whole numbers

R = Real numbers

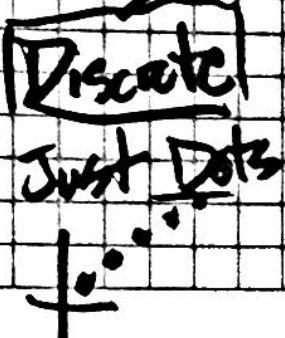
R
N
W
Q



Functions — Other

$f(x) = mx + b$
Linear

Straight Line



Arithmetic Sequences

Domain: (inputs)
 $\{x | x \in \mathbb{N}\}$

Domain: Real
 $\{x | x \in \mathbb{R}\}$

Range: (outputs)
 $\{y | y \in \mathbb{R}\}$

Constant Difference / Constant Rate of Change
Slope

Add

$f(x) = r^x(b)$

Exponential

Curves



Domain
 $\{x | x \in \mathbb{N}\}$

Domain
 $\{x | x \in \mathbb{R}\}$

Range

Geometric Sequence

Constant Ratio

Percentage Rate of Change

Growth Factor

Multiply