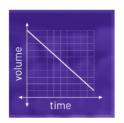
Functions - Day 5 Discrete & Continuous

Continuous Graph

A graph that is unbroken.

Examples:

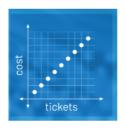




Discrete Graph

A graph composed of distinct, isolated points.

Examples:



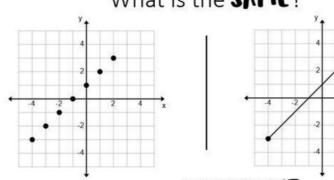


What is the **SAME**? What is **DIFFERENT**?

Domain: Domain:

Range: Range:

What is the SAME?



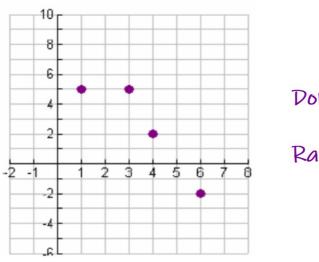
What is DIFFERENT?

Domain: -4, -3, -2, -1, 0, 1, 2

Domain: $-4 \le x \le 2$

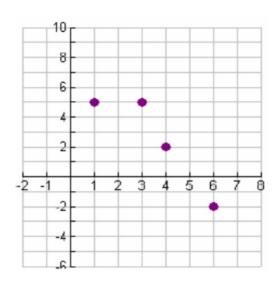
Range: -3, -2, -1, 0, 1, 2, 3

Range: $-3 \le y \le 3$



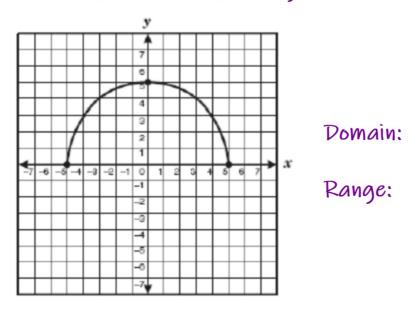
Domain:

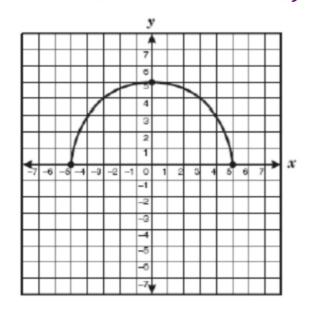
Range:



Domain: 1. 3. 4. 6

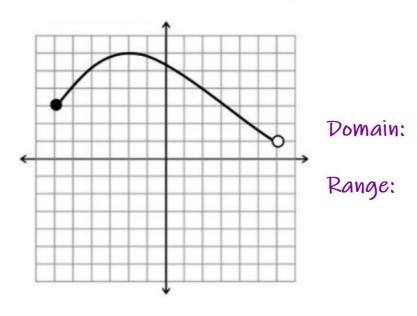
Range: 5, 2, -2

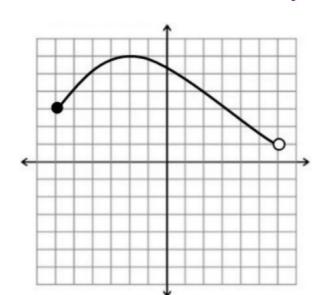




Domain: $-6 \le x \le 5$

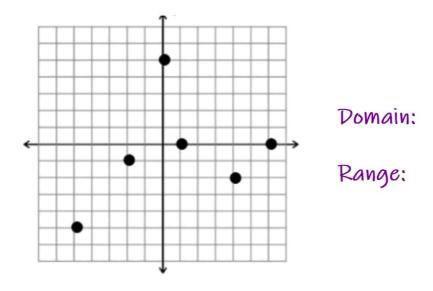
Range: $0 \le y \le 5$

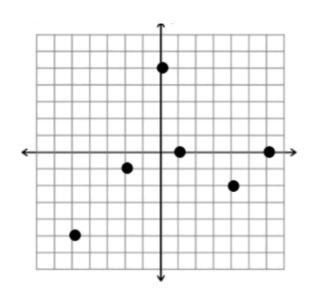




Domain: $-6 \le x < 6$

Range: $1 < y \le 6$





Domain: -5, -2, 0, 1, 4, 6

Range: -5. -2. -1. 0. 5

Decide whether the data would be discrete or continuous.						
	Discrete			Continuous		
The length your hai		Buying boxes of cereal at the store	Your height	Time in a race		
Buying pou of bananas the store	at Result of rolling	Your dog's weight	Number of students in a class	Your shoe size		

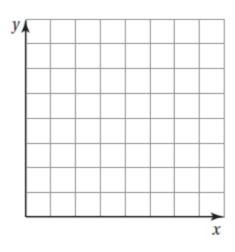
Decide whether the data would be discrete or continuous.

Continuous

	Discrete		Co	M-
How many pets you have		Buying boxes of cereal at the store	The length of your hair	
	Your shoe size			У
Result of rolling 2 dice		Number of students in a class	Your dog's weight	

The length of your hair		Buying pounds of bananas at the store
	Your height	
Your dog's weight		Time in a race

Tickets	Cost
D	D
1	15
2	30
3	45

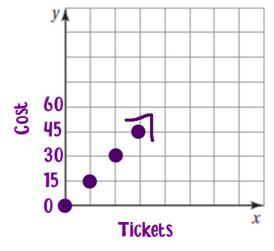


Tickets	Cost
0	D
1	15
2	30
3	45

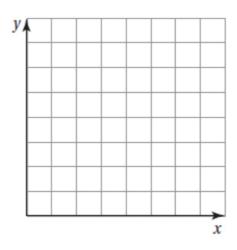
Discrete

y = 15x

Domain: 0. 1. 2. 3... Range: 0. 15. 30. 45...



Minutes Exercised	Calories Burned
D	20
5	70
10	120
15	170

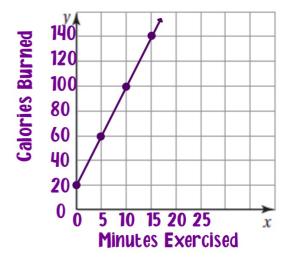


Minutes Exercised	Calories Burned
D	20
5	6 0
10	100
15	140

y = 40x + 20

Continuous

Domain: x ≥ 0 Range: y ≥ 20



Homework:

Discrete & Continuous Worksheet