

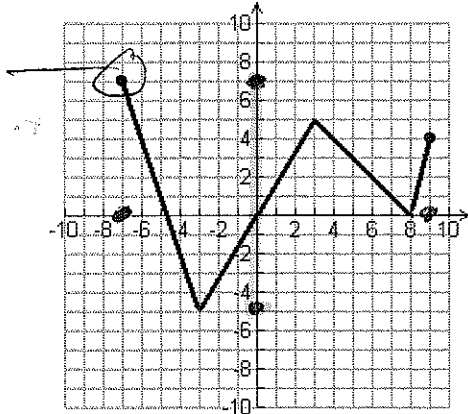
Day 2: Functions/ Domain & Range
Homework

Name HW Key
Date _____ Period _____

- Determine whether each graph represents a continuous or discrete relation, then circle.
- Determine the appropriate domain and range for each.

a. continuous or discrete ??

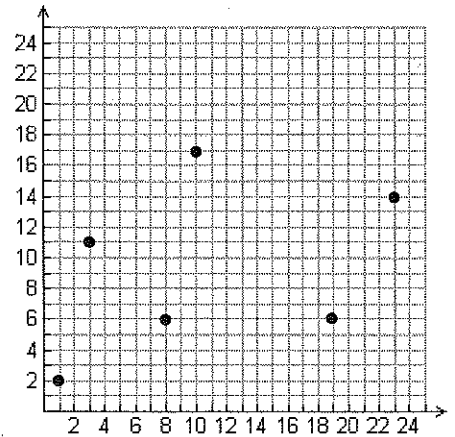
filled
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Domain $-7 \leq x \leq 9$

Range $-5 \leq y \leq 7$

b. continuous or discrete ??

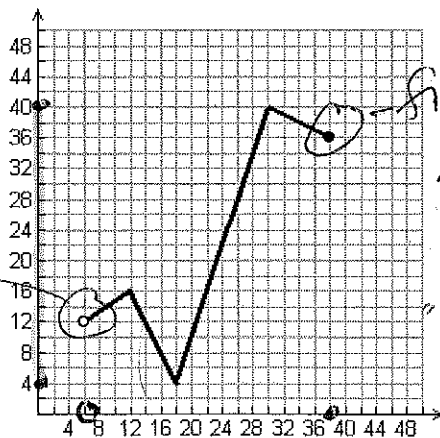


Domain $\{1, 3, 8, 10, 19, 23\}$

Range $\{2, 6, 11, 14, 17\}$

c. continuous or discrete ??

open
L



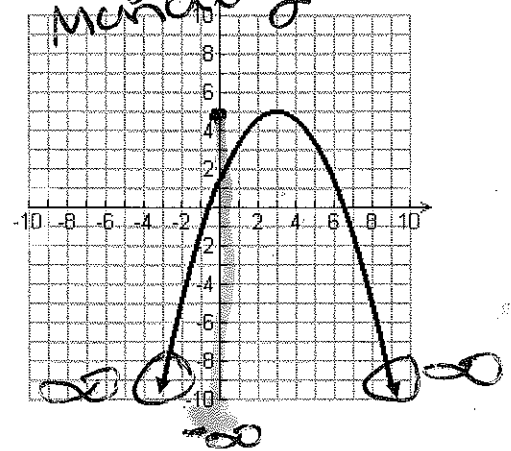
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Domain $6 < x \leq 38$

Range $4 \leq y \leq 40$

d. continuous or discrete ??

we'll go over Monday



Domain $-\infty < x < \infty$

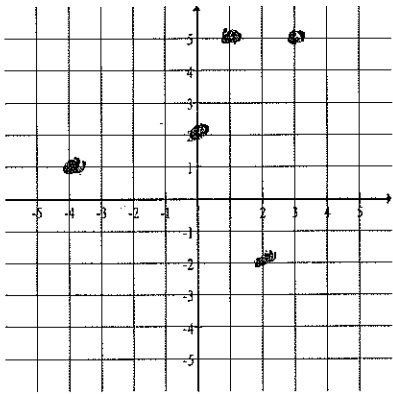
Range $-\infty < y \leq 5$

Pre } $D: \mathbb{R}$ all real numbers
AP } $R: \mathbb{R} \quad y \leq 5$

Algebra 1 Homework

3. Complete the following for these ordered pairs:
 $\{(-4, 1), (0, 2), (1, 5), (2, -2), (3, 5)\}$

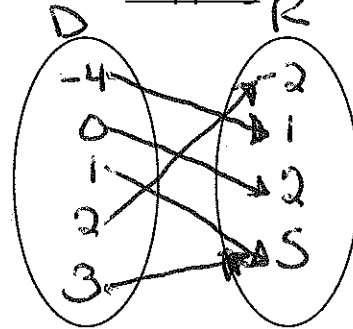
Graph



Table

X input	Y output
-4	1
0	2
1	5
2	-2
3	5

Mapping



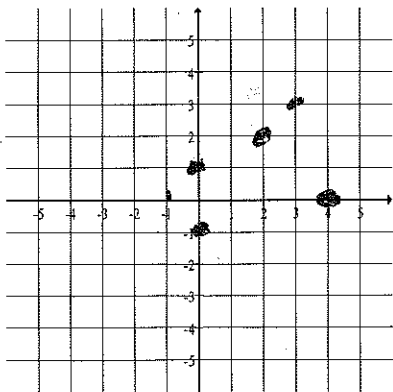
Is this a function? Explain. Yes
 Function - no repeating x-values
 Passes the vertical line test
 Only 1 arrow from each domain element

Domain: $\{-4, 0, 1, 2, 3\}$

Range: $\{-2, 1, 2, 5\}$

4. Complete the following for these ordered pairs:
 $\{(0, -1), (0, 1), (2, 2), (3, 4), (4, 0)\}$

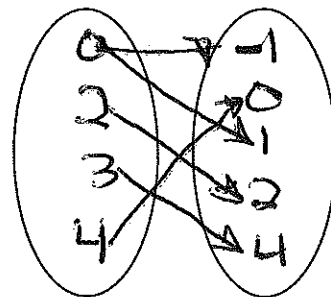
Graph



Table

X input	Y output
0	-1
0	1
2	2
3	4
4	0

Mapping



Is this a function? Explain.
 Non-Function
 The x-value of zero has two outputs
 Fails the vertical line test on the graph

Domain: $\{0, 2, 3, 4\}$

Range: $\{-1, 0, 1, 2, 4\}$