

Functions, Domain, and Range

Identify the domain and range. Is the relation a function.

① $(2, 1), (-3, 4), (1, 5), (-1, 4)$ ② $(1, 7), (2, 4), (2, 0), (3, -2)$

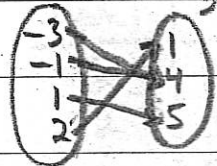
D: $\{-3, -1, 1, 2\}$

R: $\{1, 4, 5\}$

D: $\{1, 2, 3\}$

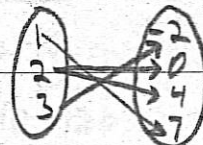
R: $\{-2, 0, 4, 7\}$

Domain Range



Function

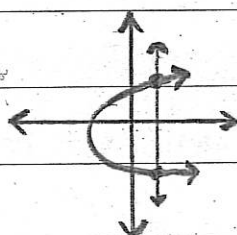
Domain Range



Not a Function

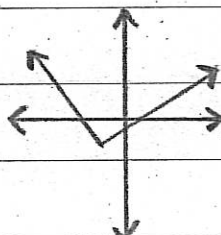
Use the vertical line test to identify functions

③



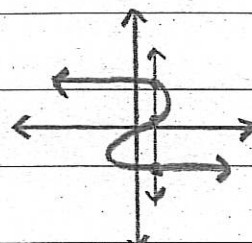
Not a Function

④



Function

⑤



Not a Function

⑥ The domain $F(x) = -2x + 5$ is $\{-1, 0, 1\}$.

What is the range?

x	$-2x + 5$	F(x)
-1	$-2(-1) + 5$	7
0	$-2(0) + 5$	5
1	$-2(1) + 5$	3

The range is $\{3, 5, 7\}$.

Function Notation

$F(x) = -2x + 5$

Replaces y