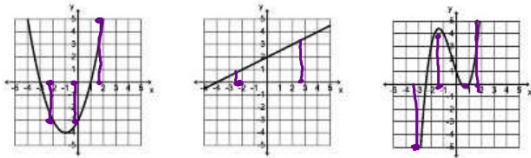


These are Functions

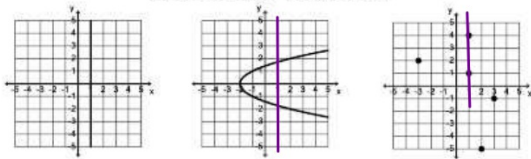


x	y
-2	1
-1	0
0	-1
1	-2
2	-3

x	y
-5	2
0	4
5	6
10	8
15	10

x	y
-3	1
0	1
1	1
8	1
10	1

These are NOT Functions



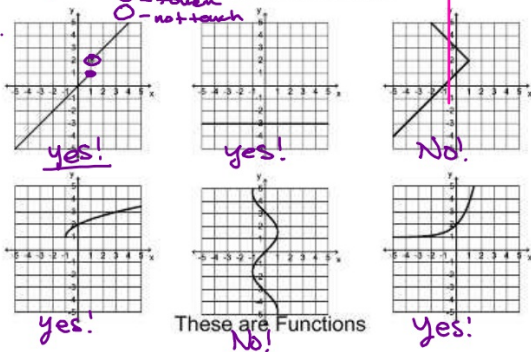
These are NOT Functions

x	y
-1	-3
-1	-2
0	-1
1	0
2	1

x	y
3	1
3	2
3	3
3	4
3	5

x	y
-3	0
0	-1
8	6
8	-1
10	3

Which of the following graphs are functions?
Explain how you decided.



Which of the following tables are functions?
Explain how you decided.

x	y
0	0
1	1
2	4
3	9

yes

x	y
-1	-4
1	-2
5	0
9	2

yes!

x	y
-1	7
-1	7
1	5
1	5

yes!

x	y
-2	5
-2	4
0	3
2	2

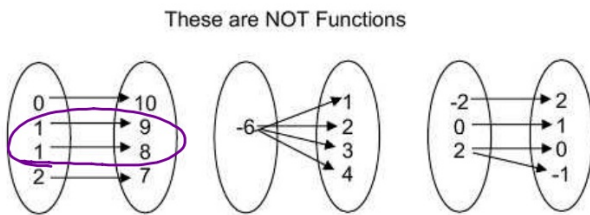
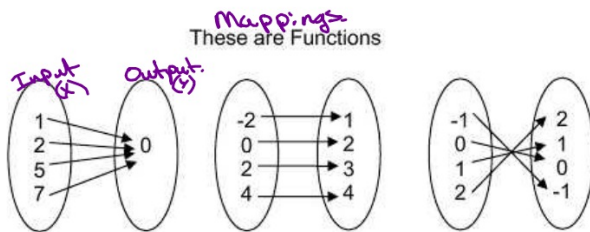
No

x	y
0	0
1	1
16	4
36	6

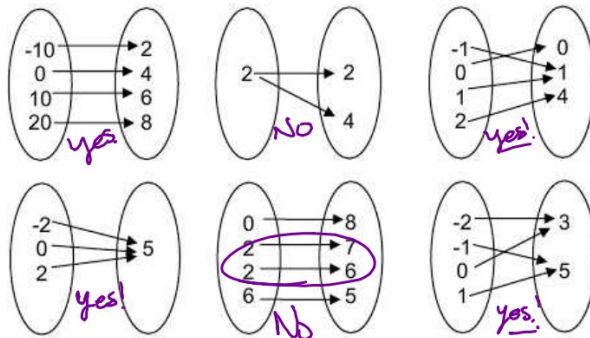
yes!

x	y
-3	8
0	4
0	0
8	-4

No



Which of the following mappings are functions?
Explain how you decided.



Relation: one set to another: Table, graph, mapping

Function: each input only goes to one output

Domain: x-values: Input: $-\infty < x < \infty$, $\{ \dots, 0, 1, 2, 3 \}$

Range: y-values: Output: $-3 \leq y \leq 2$, $\{ -3, -2, -1, 0, 1, 2 \}$

Determine if the following relations are functions. If it is a function, state the domain and range.

<table border="1" style="margin: auto;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>6</td><td>2</td></tr> <tr><td>10</td><td>4</td></tr> <tr><td>6</td><td>5</td></tr> <tr><td>9</td><td>8</td></tr> </tbody> </table>	x	y	6	2	10	4	6	5	9	8	
x	y										
6	2										
10	4										
6	5										
9	8										
function: yes or <u>no</u>	function: yes or <u>no</u>										
D: $\{ 6, 9, 10 \}$	D: $\{ -3, -1, 0, 3 \}$										
R: $\{ 2, 4, 5, 8 \}$	R: $\{ -1, 1, 4 \}$										
$\{ (3, 6), (4, 10), (8, 12), (4, 10) \}$ <i>dividing same place</i>											
function: <u>yes</u> or no	function: <u>yes</u> or no										
D: $\{ 3, 4, 8 \}$	D: $\{ -1, 0, 1, 2 \}$										
R: $\{ 6, 10, 12 \}$	R: $\{ 4, 6, 8, 10 \}$										