Exploring Relations	&	Functions	(part	1	١
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Definition: A function is a relation that pairs each input value with <u>exactly one</u> output value.

Let f(x) = 2x+1, $g(x) = \frac{1}{2}(x-1)$, and h(x) = x.

- 1. Describe the relationship between the graphs of f(x) and g(x) in relation to the graph of h(x).
- 2. Complete the following tables.

×	f(x)
-1	
-1/2	
0	
1/2	
1	

"range."_

×	g(x)
-1	
0	
1	
2	
3	

- 3. Compare the values in the tables.
- 4. Using the definition of a function (above), is f(x) a function? Is g(x) a function? Why or why not?

5. Name the "x" column in each table "domain" and the other column in each table "range." Compare the tables in terms of "domain" and

Two <u>functions</u> with this relationship are called "inverse" functions.
Write a definition for inverse functions.

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