

Ch 5.2 Functions

Function - for every input value there is exactly one output. (*The x values can't repeat*)

Domain values- are the input or x values

Range values- are the output or y values

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Ex1)Given a table of values determine if it represents a function. If yes, give the domain and range.

a) input output

1 → 2
2 → 4
3 → 5
4 → 5

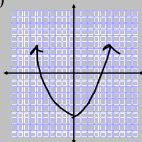
b)

x	y
-1	0
-2	7
-3	5
-1	4
-2	3

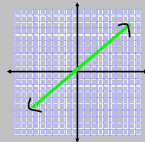
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Ex2) Given a graph determine if it is a function. Use the **vertical line test**-draw a vertical line and if the line only intersects one time with the other line, it is a function.

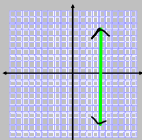
a)



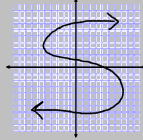
b)



c)



d)



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Ex3) Evaluate the function and graph.

a) $f(x) = 7 - 3x$ when $x = 4$

b) $g(x) = 10x + 3$ when $x = -2, 0, 3$

Try: $h(x) = \frac{3x}{4} + 8$ when $x = 2, 0, -2$

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