

ALL PROBLEMS CAN BE COMPLETED ON THIS SHEET

WS 6D.1 - Functions

Tell whether each relation is a function. Circle "function" or "not function." If it is not a function, tell why it is not.

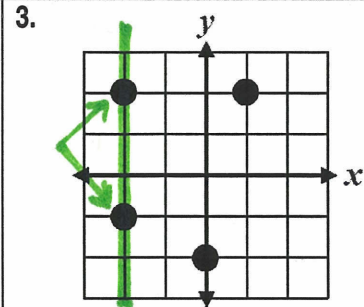
1. $\{(4, 5), (-3, 5), (-6, 5)\}$

FUNCTION NOT FUNCTION
each x-coordinate is paired with exactly one y

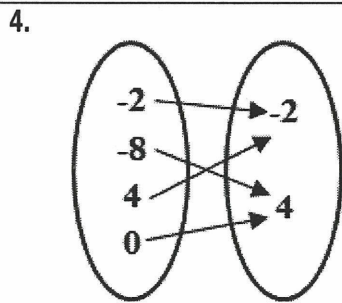
2.

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

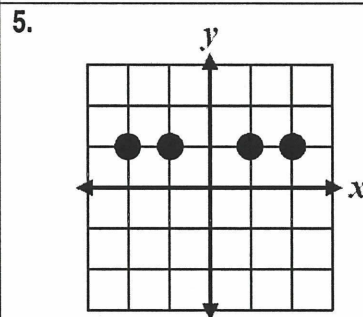
FUNCTION NOT FUNCTION
each x-coordinate is paired with exactly one y



FUNCTION **NOT FUNCTION**
fails vertical line test (repeating x-coordinates)



FUNCTION NOT FUNCTION
each x-coordinate is paired with exactly one y



FUNCTION NOT FUNCTION
passes vertical line test (no repeating x-coordinates)

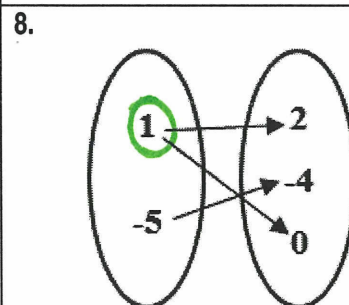
6. $\{(4, 2), (-3, 2), (-6, 2)\}$

FUNCTION NOT FUNCTION
each x-coordinate is paired with exactly one y

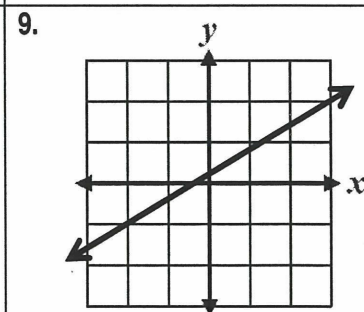
7.

x	y
-1	-1
-2	-2
-3	-3
-4	-4

FUNCTION NOT FUNCTION
each x-coordinate is paired with exactly one y



FUNCTION **NOT FUNCTION**
x-coordinate 1 is paired with 2 and 0



FUNCTION NOT FUNCTION
passes vertical line test (no repeating x-coordinates)

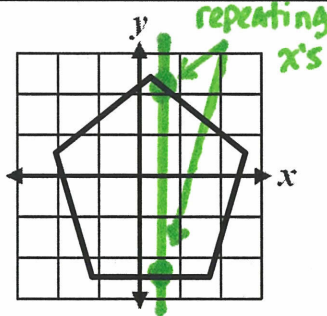
10.

$\{(0, 4), (0, 3)\}$



FUNCTION **NOT FUNCTION**
 x-coordinate 0 is paired with 4 and 3

11.



FUNCTION **NOT FUNCTION**
 fails vertical line test (repeating x-coordinates)

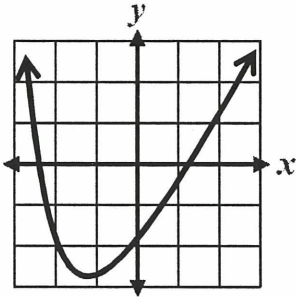
12.

x	y
0	1
-8	2
3	3
-8	-4

repeating x's

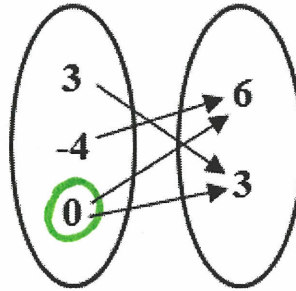
FUNCTION **NOT FUNCTION**
 x-coordinate -8 is paired with 2 and -4

13.



FUNCTION NOT FUNCTION
 passes vertical line test (no repeating x-coordinates)

14.



FUNCTION **NOT FUNCTION**
 x-coordinate 0 is paired with 6 and 3

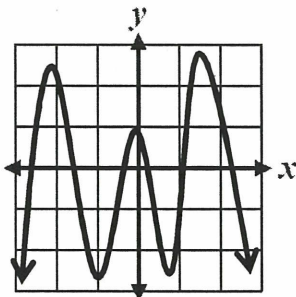
15.

$\{(1, 1), (2, 1), (1, 2)\}$



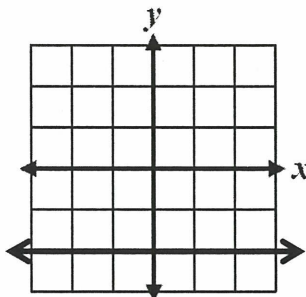
FUNCTION **NOT FUNCTION**
 x-coordinate 1 is paired with 1 and 2

16.



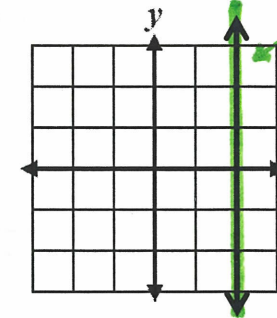
FUNCTION NOT FUNCTION
 passes vertical line test (no repeating x-coordinates)

17.



FUNCTION NOT FUNCTION
 passes vertical line test (no repeating x-coordinates)

18.



all points on this line have the same x-coordinate

FUNCTION **NOT FUNCTION**
 fails vertical line test repeating x's everywhere!