

# Am I a Function?

#2

Name Key Pd \_\_\_\_\_ Date \_\_\_\_\_

1. How do you determine whether or not a function is shown in:
  - a. A graph - passes vertical line test
  - b. A table - each x has only 1 y
  - c. A mapping diagram each input has only 1 output
2. What does "linear" mean? graphs a straight line
3. Write 3 equations that are linear functions.  
 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
4. Write 3 equations that are NOT functions.  
 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

*Answers will vary*

Complete each function table.

5.  $y = 3x + 2$

x	y
-2	-4
-1	-1
0	2
1	5
2	8
3	11

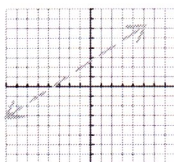
6.  $y = \frac{1}{2}x - 1$

x	y
-2	-2
-1	-1.5
0	-1
1	-0.5
2	0
3	0.5

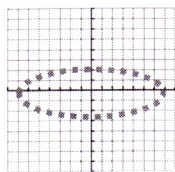
7.  $y = 2x + 5$

x	y
-2	1
-1	3
0	5
1	7
2	9
3	11

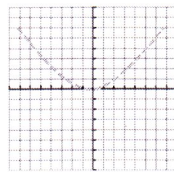
Tell whether or not each of the following is a function. Answer yes or no in the blank.



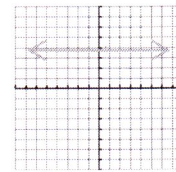
8. yes



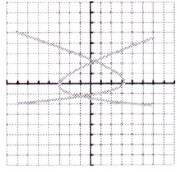
9. no



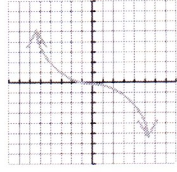
10. yes



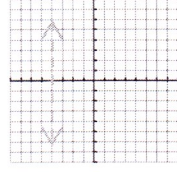
11. yes



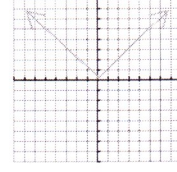
12. no



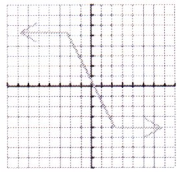
13. yes



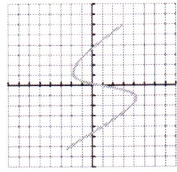
14. no



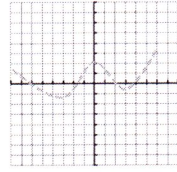
15. yes



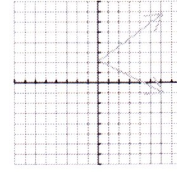
16. yes



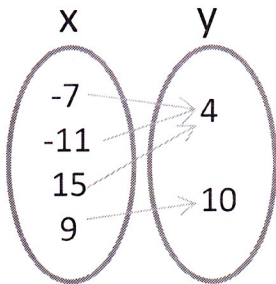
17. no



18. yes



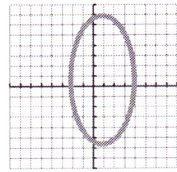
19. no



20. yes

x	y
-1	7
-1	3
4	6
-2	-10

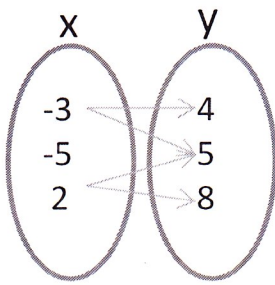
21. no



22. no

x	y
1	5
2	6
0	7
-1	8

23. yes



24. no

X	8	5	-1	-4
Y	3	0	-6	-9

25. yes