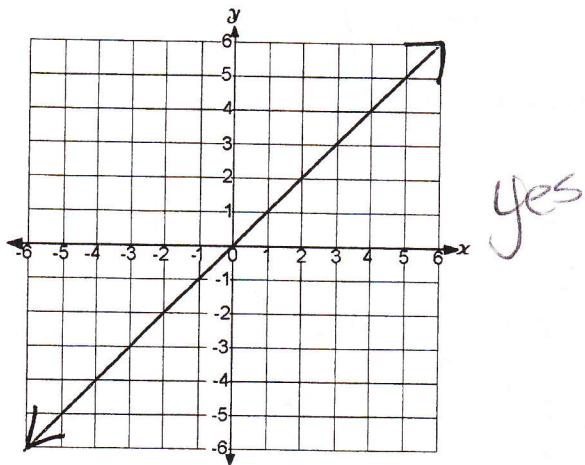


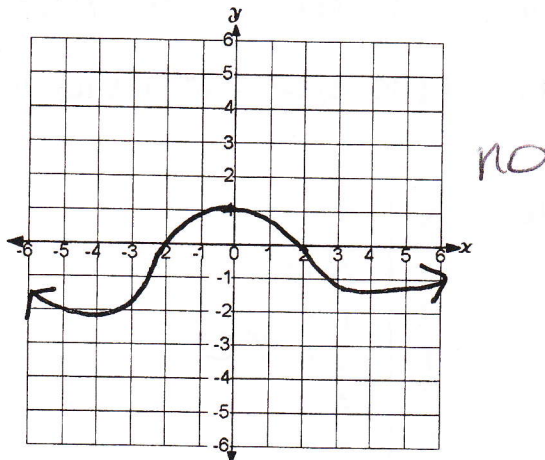
Is This a Linear Function?

Determine if the example given is a linear function. Write yes or no.

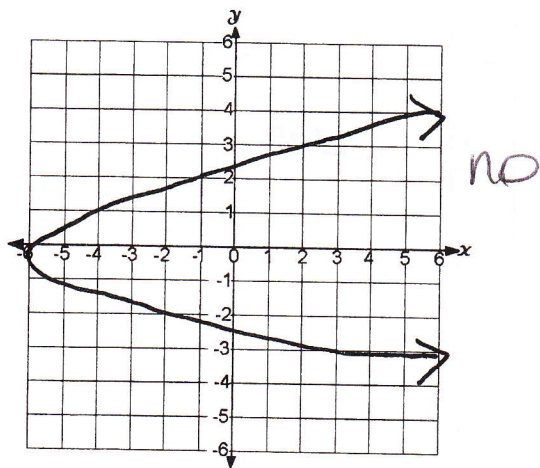
1.



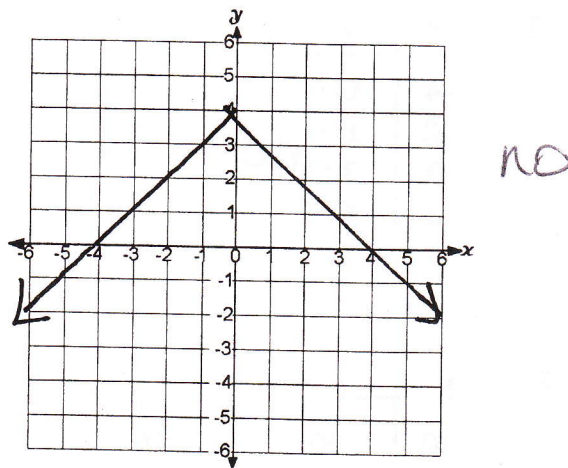
2.



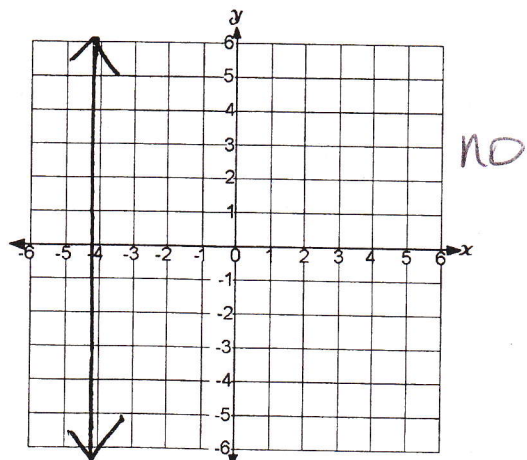
3.



4.



5.



6. $y^2 = 2x + 3$ no

7. $y = 2x + 9$ yes

8. $5x + 3 = y$ yes

9. $3x + 4y = 10$ yes

10. $y = -x^2 - 9$ no

11. $\{ (-3,-15) (-2,-10) (-1,-5) (0,0) (1,5) (2,10) \}$ *yes*
 $5x$ $5x$ $5x$ $5x$ $5x$ $5x$

12. $\{ (-4,8) (-2,4) (0,0) (2,-4) (4,-8) \}$ $y = -2x$ *yes*

13. $\{ (-3,-11) (-2,-10) (-1,-9) (0,8) (1,-7) (2,-6) \}$

14. $\{ (-10,-4) (-5,1) (0,3) (5,7) (10,15) \}$ *no (curves)*

15. $\{ (-10,-5) (-5,0) (0,5) (5,10) (10,15) \}$ $y = x + 5$ *yes*

16.

x	y
-3	0 ⁺³
-2	1 ⁺³
-1	0 ⁺² <i>no</i>
0	3
1	4
2	5

17.

x	y
-4	-8 ^{x²}
-2	-4 ^{x²} <i>no</i>
0	-2
2	-1
4	0

18.

x	y
-4	0 ⁺⁴
-2	1 ⁺³
0	3 ⁺³ <i>no</i>
2	5
4	7

19.

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

$y = x - 3$
yes

20.

x	y
-10	30
-5	15
0	0
5	-15
10	-30

$y = -3x$
yes