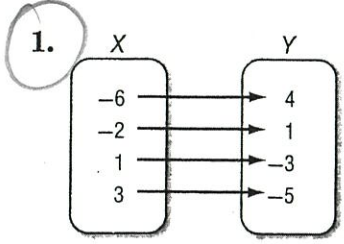


1-7 Skills Practice

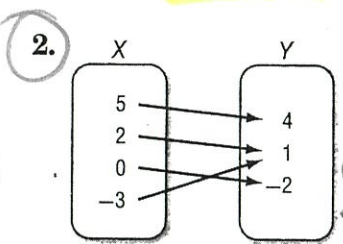
Functions *Do Now*

Determine whether each relation is a function.

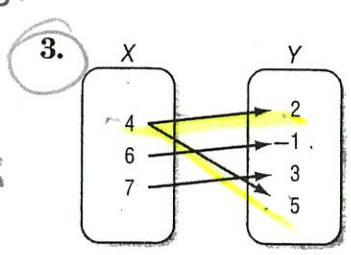
x-values DON'T repeat



yes



yes



(4, 2)
(4, -1)
(6, -1)
(7, 3)
(7, 5)
NO

4.

x	y
4	-5
-1	-10
0	-9
1	-7
9	1

yes

5.

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

NO

6.

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

NO

7. $\{(2, 5), (4, -2), (3, 3), (5, 4), (-2, 5)\}$

yes

8. $\{(6, -1), (-4, 2), (5, 2), (4, 6), (6, 5)\}$

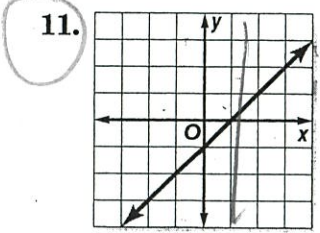
NO

9. $y = 2x - 5$

yes

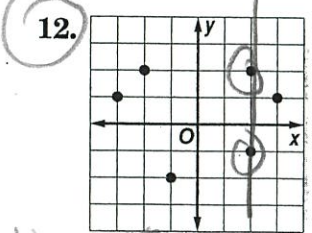
10. $y = 11$

yes

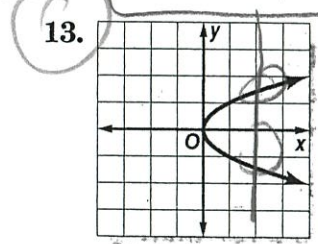


yes!

passes vertical line test



NO!



NO

Fails the vertical line test

If $f(x) = 3x + 2$ and $g(x) = x^2 - x$, find each value.

14. $f(4)$
 $f(x) = 3x + 2$
 $f(4) = 3(4) + 2$

15. $f(8)$

16. $f(-2)$
 $f(x) = 3x + 2$
 $f(-2) = 3(-2) + 2$

17. $g(2)$

18. $g(-3)$
 $g(x) = x^2 - x$
 $g(-3) = (-3)^2 - (-3)$

19. $g(-6)$

20. $f(2) + 1$

21. $f(1) - 1$

22. $g(2) - 2$

23. $g(-1) + 4$

24. $f(x + 1)$

25. $g(3b)$

$g(x) = x^2 - x$
 $g(2) = 2^2 - 2$
 $g(2) = 4 - 2$
 $g(2) = 2$