

HW 2-1 HONORS: Functions Introduction

Determine if each set of ordered pairs is a function or not, then state the domain and range.

1. $\{(-7,2), (3,5), (8,4), (-6,5), (-2,3)\}$ Function: Yes or No

Domain:

Range:

2. $\{(9,2), (0,4), (4,0), (5,3), (2,7), (0,-3), (3,-1)\}$ Function: Yes or No

Domain:

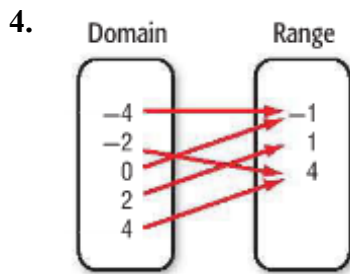
Range:

3. $\{(1,2), (2,3), (3,4), (4,5), (5,6), (6,7), (7,8), (8,9)\}$ Function: Yes or No

Domain:

Range:

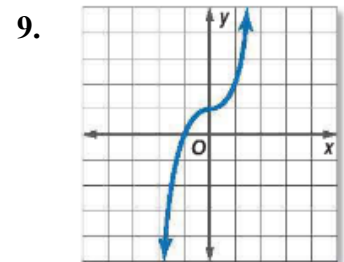
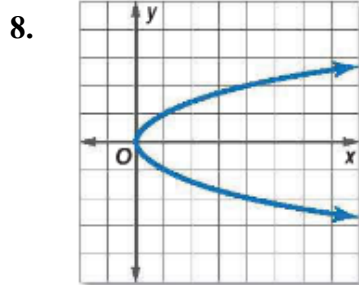
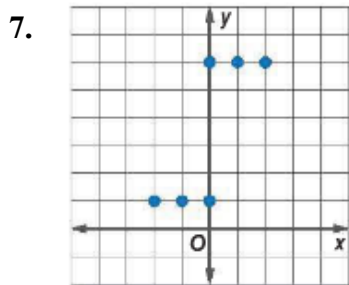
Determine whether each relation is a function. Explain.



5.

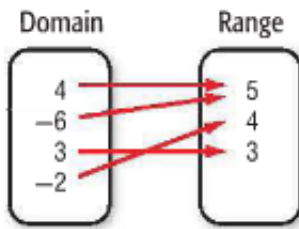
Domain	Range
2	6
5	7
6	9
6	10

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

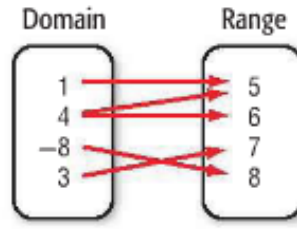


Determine whether each relation is a function. Explain.

10.



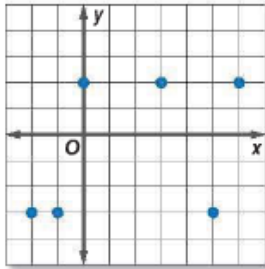
11.



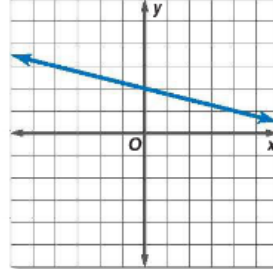
12.

Domain	Range
4	6
-5	3
6	-3
-5	5

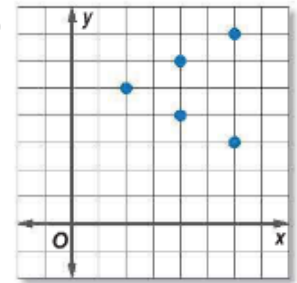
13.



14.



15.



If $f(x) = 6x + 7$ and $g(x) = x^2 + 4x$, find each value.

16. $f(-3)$

20. $g(r)$

24. $g(7) + 2$

17. $g(4)$

21. $f(a)$

25. $2 + f(-9)$

18. $g(-2)$

22. $g(3) + f(-4)$

19. $f(9)$

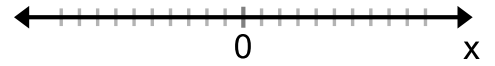
23. $g(6) + f(0)$

Graph the inequalities on a number line.

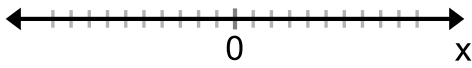
26. $x \geq 3$



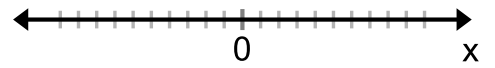
31. $x \geq 2$ or $x < -3$



27. $x \leq 7$



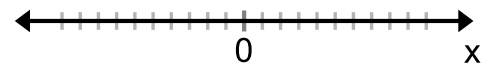
32. $-4 < x < 2$



28. $-5 < x$



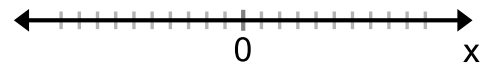
33. $-3 < x \leq 0$



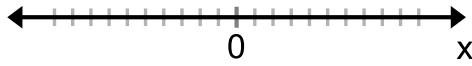
29. $x < -4$



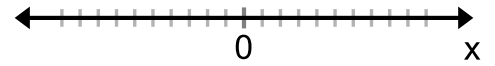
34. $x \leq -5$ or $x > 1$



30. $-8 \leq x < 5$

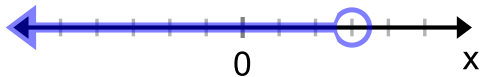


35. $x \geq 0$ or $x \leq -6$

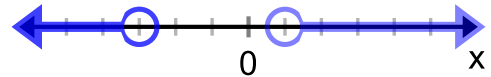


Write the inequality to represent the given graph.

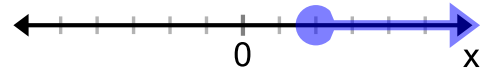
36.



38.



37.



39.

