NAME_____**DATE**_____**PER.**_____

FUNCTIONS REVISITED

Determine whether each relation is a function (circle yes or no). Tell why or why not.

1.

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

YES or NO

Why?

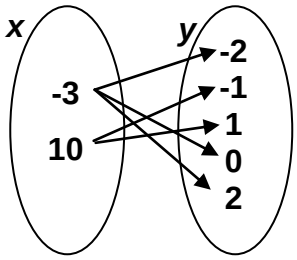
2.

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

YES or NO

Why?

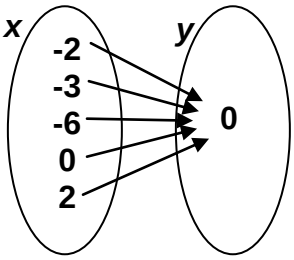
3.



YES or NO

Why?

4.



YES or NO

Why?

5. {(6, 3), (5, 2), (2, -3), (12, -12)}

YES or NO

Why?

6. {(4, 5), (3, -2), (-2, 5), (4, 7)}

YES or NO

Why?

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

7. f(-4) =

8. g(4) =

9. f(6) =

10. g(-3) =

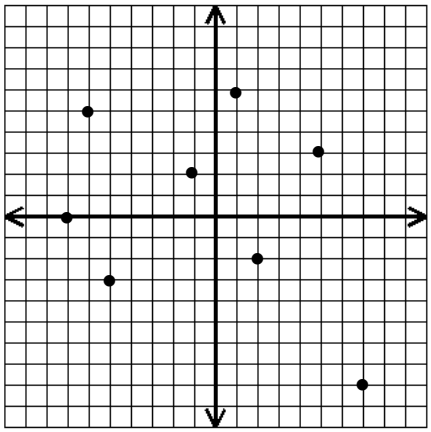
11. f(1) + g(2) =

12. 2[g(-5)] + 4[f(4)] =

Given that f(x) = 3x – x^2, and the domain is {-3, -2, 4, 6}, find the range.

13. R = _____

Use the graph below to answer the questions that follow.



14. List the ordered pairs of the relation.

15. What is the domain of the relation?

16. What is the range of the relation?

17. Does the relation represent y as a function of x? Why or why not?

18. f(-1) =

19. f(7) =

20. f(-7) =_____

21. f(x) = 2; x =_____

22. f(x) = 3; x =_____

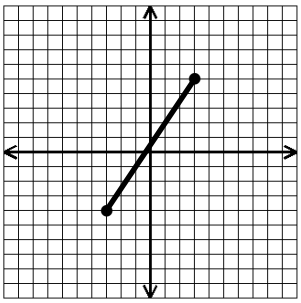
23. If f(x) = 6, what is the value of x + 2? ____

Find the domain and range of each function.

24)

D = _____

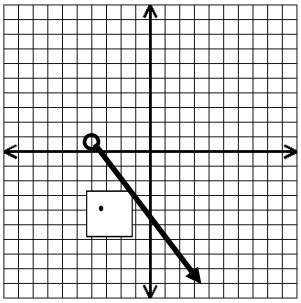
R = _____



25)

D = _____

R = _____



REVIEW.

26. An architect is designing an office building with n floors that will have an FM radio antenna 15.85 m tall on its roof. Each floor of the building will be 3.9 m high. Which function can be used to find the total height of the building in meters, including the FM radio antenna?

A. h(n) = 15.85n + 3.9

B. h(n) = 3.9n + 15.85

C. h(n) = 3.9n – 15.85

D. h(n) = 19.75n