Function Practice - HW 1-1 Name _____

I. Indicate whether each is a function or not a function. Then give the domain and range.

1. F(x) = { (2, 4) , (4, 5) , (4, 8) , (6, 7) , (3, 9) }

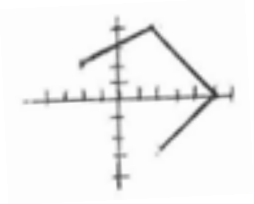
Function? _____ Domain = _____ Range = _____

2. H(x) = { (8, 2) , (7, 3) , (6, 2) , (4, -3) , (0, 9) }

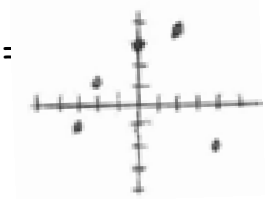
Function? _____ Domain = _____ Range = _____

3. G(x) = x + 3

Function? _____ Domain = _____ Range = _____

4. M(x) = 

Function? _____ Domain = _____ Range = _____

5. R(x) = 

Function? _____ Domain = _____ Range = _____

II. Use the definitions in problems 1-5 to find these values:

6. F(4) = _____

7. H(4) = _____

8. If H(x) = 3, then x = _____

9. G(5) = _____

10. G(k) = _____

11. R(-2) = _____

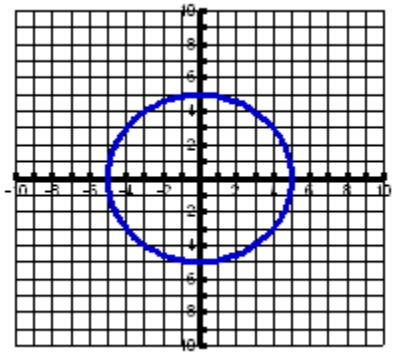
12. 5H(8) + 2R(2) = _____

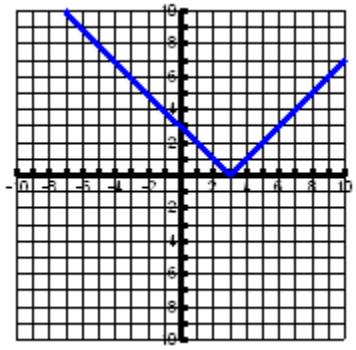
13. H (G (4)) = _____

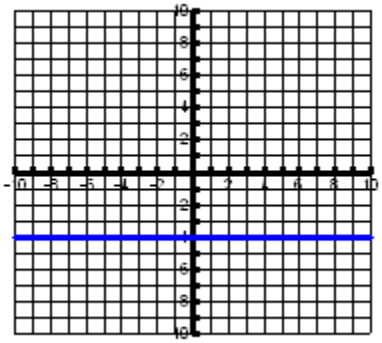
14. If R(x) = 3, then x = _____

HW- Function Practice **Name** _____

1. Determine whether each relation is a function. Write yes or no.

a. 

b. 

c. 

d. {(-3, 4), (4, 2), (6, 4)}

e. {(-8, 3), (2, 5), (-1, 3), (2, -4)}

2. A function *h* includes the ordered pairs (-2, 1), (1, 2), and (3.5, -0.3). State whether *h* will still be a function if each ordered pair given below is also included in *h*.

a. (-2, 2) b. (0, 0) c. (2, 1)

3. Find each value if $f(x) = 3x - 5$ and $g(x) = x^2 - x + 3$.

a. f(-3) b. g(3) c. g(a)

d. f(x - 1) e. g(5n) f. g(a + 1)

4. The graph of each figure described below can be a function or a relation that is NOT a function depending on how it appears on a coordinate plane. Graph each figure as both 1) a function and 2) a relation that is NOT a function.

a. set of ordered pairs b. a wavy line c. an angle