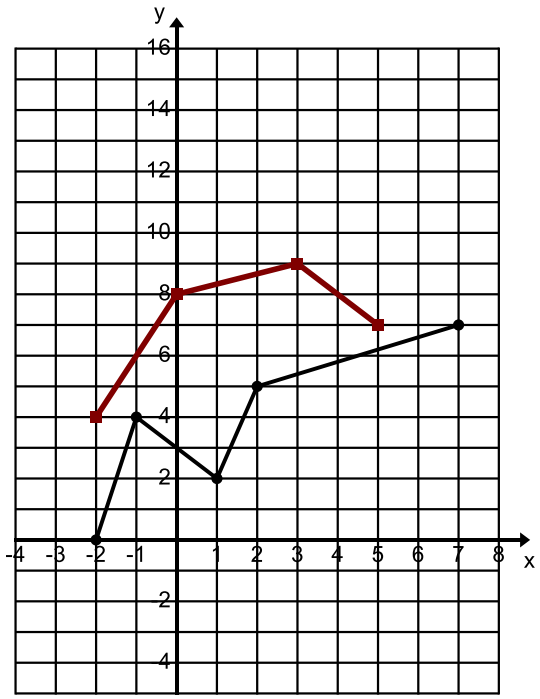
Name_____ Date: _____ Period: _____ Score: _____

Sec 1H Unit 5 Day 6 – Operations with Functions Assignment

1. Add the 2 functions in the table.

Weeks	Money saved	Money earned	Total Money
0	3	2	
1	6	4	
2	9	5	
3	12	7	
4	15	9	
5	18	10	
6	21	11	

2. Add the two functions on the graph.

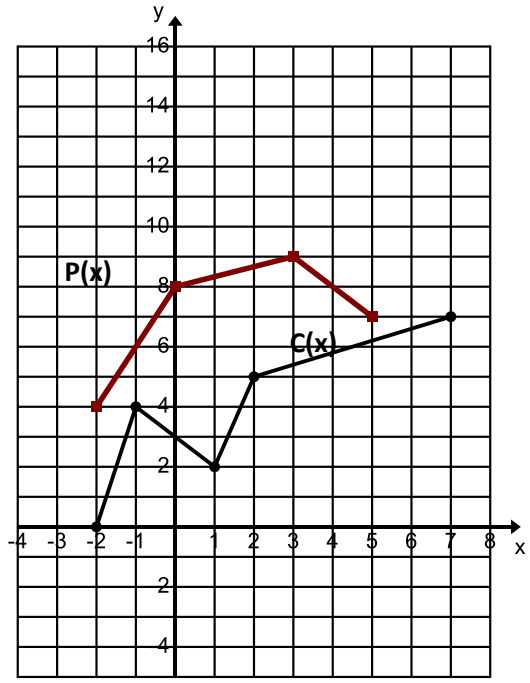


3. Fill out the table.

x	M(x)	P(x)	M(x) – P(x)
-2	37	-11	
-1	30	-8	
0	23	-5	
1	16	-2	
2	9	1	
3	2	4	
4	-5	7	

"The greatest mistake you can make in life is to continually be afraid you will make one." -Elbert Hubbard

4. Find p(x) – c(x) on the graph.



Let $f(x) = 2x - 4$, $g(x) = -5x + 7$ and $h(x) = 4x$ Perform the indicated operation.

5. $m(x) = f(x) + g(x)$

6. $r(x) = f(x) - g(x)$

7. $w(x) = 3g(x) + h(x)$

8. $v(x) = (g + f)(x)$

9. $p(x) = 2h(x)$

10. $b(x) = -h(x) + 5g(x)$

11. f(-1) + g(-1)

12. (f + g)(-1)

13. -3h(-3)

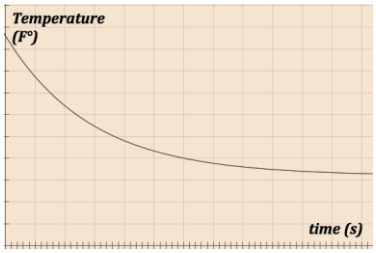
14. 8 – g(4)

15. h(0) – g(0)

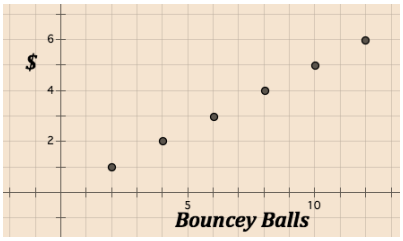
16. -13 + f(-13)

*For each context or representation determine whether it is discrete or continuous or could be modeled best in a **discrete or continuous** way and state **why**.*

17.



18.



19. The distance you have traveled since the day began.

20. The number of steps you have traveled since the day began.

21. Oranges poured out of a bag over time.

22. Orange juice poured out of a jug over time.