

HW 1.5.1 Verifying Patterns

Identify the following functions as sum-sum, sum-constant second difference, sum-product, product-sum, or product-product.

1. _____

x	$f(x)$
-2	3
-1	0
0	1
1	6
2	15

2. _____

x	$f(x)$
1	3
2	8
3	13
4	18
5	23

3. _____

x	$f(x)$
1	2
3	6
5	18
7	54
9	162

4. _____

x	$f(x)$
2	11
4	21
6	31
8	41
10	51

5. _____

x	$f(x)$
2	4
4	6
8	9
16	13.5
32	20.25

6. _____

x	$f(x)$
1	2
3	6
9	18
27	54
81	162

7. _____

x	$f(x)$
1	5
3	11
9	17
27	23
81	29

8. _____

x	$f(x)$
1	4
2	8
4	16
8	32
16	64

9. _____

x	$f(x)$
2	-1
4	2
8	5
16	8
32	11

10. _____

x	$f(x)$
1	2
3	4
9	8
27	16
81	32

11. _____

x	$f(x)$
0	4
1	8
2	16
3	32
4	64

12. _____

x	$f(x)$
-2	13
0	1
2	13
4	49
6	109

13. _____

x	$f(x)$
5	12
10	18
15	27
20	40.5

14. _____

x	$f(x)$
5	12
10	18
15	24
20	30

15. _____

x	$f(x)$
5	12
10	18
20	27