NAME:_____

1. Write a function rule for the table.

n	1	2	3	4
$f(n)$	3	2	1	0

[A] $f(n) = 4 - n$ [B] $f(n) = n^4$

[C] $f(n) = n^2$ [D] $f(n) = 4n$

2. Write a function rule for the table.

n	2	3	4	5
$f(n)$	4	9	16	25

[A] $f(n) = 5 - n$ [B] $f(n) = 5n$

[C] $f(n) = n^5$ [D] $f(n) = n^2$

3. Which function is modeled by the table?

x	-5	0	1	3
y	-9	1	3	7

[A] $f(x) = -x + 4$ [B] $f(x) = 3x$

[C] $f(x) = 2x + 1$ [D] $f(x) = x - 3$

[E] $f(x) = x + 3$

4. Complete the table. Then use the variables to write a formula.

i	33	36	39	42
j	132	144	156	

[A] 171, $j = 4i + 3$ [B] 210, $j = 5i$

[C] 172, $j = 4i + 4$ [D] 168, $j = 4i$

5. Select the rule that describes the function illustrated in the table below.

Input	1	2	3	4
Output	5	7	9	11

[A] $2x + 3$ [B] $x + 4$

[C] $3x - 1$ [D] $4 - x$

6. Write a function that describes the input/output table below.

Input n	Output $f(n)$
-2	1.5
-1	2.5
0	3.5
1	4.5

[A] $f(n) = n + 2.5$ [B] $f(n) = 3.5 - n$

[C] $f(n) = n + 0.5$ [D] $f(n) = n + 3.5$

7. Write a function rule that describes the input/output table below.

Input n	Output $f(n)$
-2	6.6
-1	5.6
0	4.6
1	3.6

[A] $f(n) = n + 6.4$ [B] $f(n) = n - 4.6$

[C] $f(n) = n - 4$ [D] $f(n) = 4.6 - n$

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8. Write a function rule that describes the input/output table below.

Input n	Output $f(n)$
-2	9
-1	3
0	1
1	3
2	9

[A] $f(n) = 2n^2 - 3$ [B] $f(n) = 2n + 4$

[C] $f(n) = 3n + 1$ [D] $f(n) = 2n^2 + 1$

9. Write a rule for the following function represented by the table.

n	3	4	5	6
$f(n)$	1	0	-1	-2

10. Write a rule for the following function represented by the table.

n	2	3	4	5
$f(n)$	4	9	16	25

11. From the input/output table, find the equation for the function.

Input, x	1	2	3	4	5
Output, y	0	5	10	15	20

12. Which statement fits the data below?

Cars Washed	Hours
1	0.25
2	0.5
3	0.75
4	1

[A] hours worked = cars washed $\cdot$ 0.25

[B] hours worked = 0.25 $\div$ cars washed

[C] hours worked = 15 $\cdot$ cars washed

[D] hours worked = cars washed $\div$ 0.25

[E] hours worked = 4 $\div$ cars washed

13. Write an equation that models the relationship in the table.

Sandwiches	Cost
1	\$2.08
2	\$4.16
3	\$6.24
4	\$8.32

14. Write an equation to model the relationship in the table.

Days	Pay
1	\$50
2	\$100
3	\$150
4	\$200

[1] A

[2] D

[3] C

[4] D

[5] A

[6] D

[7] D

[8] D

[9] $f(n) = 4 - n$

[10] $f(n) = n^2$

[11] $y = 5x - 5$

[12] A

[13] $c = \$2.08s$

[14] $p = 50d$