

Arithmetic Sequences and Function notation

Warm-up

Evaluate.

$$f(x) = -4x + 5$$

1. $f(2) =$

2. $f(x) = 10$

3. $f(-3) =$

4. $f(x) = -5$

Make a table given the function

1. $f(x) = 5x - 4$

x	f(x)
0	
1	
2	
3	
4	

2. $f(x) = -3x - 1$

x	f(x)
0	
1	
2	
3	
4	

3. $f(x) = 2x + 12$

x	f(x)
0	
1	
2	
3	
4	

Given the recursive rule, write the first 5 terms

4. $a_n = a_{n-1} + 5$ $a_0 = -2$

5. $a_{n-1} = a_n - 1$ $a_1 = 10$

Write the function rule for the given table

x	0	1	2	3	4
f(x)					

Write the recursive rule for the given table

n	0	1	2	3	4
a_n					

Write the function rule for the given table

x	0	1	2	3	4
f(x)	4	7	10	13	16

Write the recursive rule for the given table

n	0	1	2	3	4
a_n	4	7	10	13	16

Write the function rule for the given table

x	0	1	2	3	4
f(x)	-2	-7	-12	-17	-22

Write the recursive rule for the given table

n	0	1	2	3	4
a_n	-2	-7	-12	-17	-22