Arithmetic Sequences 2: Finding arithmetic and recursive rules starting with n = 0 and n = 1

Write a function rule for each table then write the recursive rule for the same sequence.

1.						
Х	1	2	3	4	5	
f(x)	5	8	11	14	17	
Slope:	Y-intercept		I	Function Rule:		
n	1	2	3	4	5	
an	5	8	11	14	17	
Starting Point	Constant Difference:		ce: R	Recursive rule:		
2.						
Х	0	1	2	3	4	
f(x)	20	18	16	14	12	
lope: Y-intercept			I	Function Rule:		
n	0	1	2	3	4	
an	20	18	16	14	12	
3.	1	2	3	4	5	
$f(\mathbf{x})$	50	55	60	65	70	
Slope:				Function Rule:		
n	1	2	3	4	5	
an	50	55	60	65	70	
Starting Point Constant Difference:			ce: R	Recursive rule:		
X	0	1	2	3	4	
f(x)	100	50	0	-50	-100	
Slope:	Y-intercept		I	Function Rule:		
n	0	1	2	3	4	
a _n	100	50	0	-50	-100	
Starting Point	Point Constant Difference:		ce: R	Recursive rule:		

Find the missing terms for the arithmetic sequence and state the common difference

7. 6, 11, ___, ___, 26, ____ 8. 2, ___, ___, 18, ____

Common difference: _____ Common difference: _____

Two consecutive terms in an arithmetic sequence are given. Find the **missing terms**, the **constant difference**, the **function rule**, and the **recursive rule**

9. f(2) = 5, f(3) = 12 Find what f(4) = _____ and what f(5) = _____

Constant difference_____ Function Rule_____ Recursive Rule_____

10. f(4) = 6, f(5) = 8 Find what $f(6) = _$ and what $f(7) = _$

Constant difference_____ Function Rule_____ Recursive Rule_____