Sequences - Finding the nth Term Rule - Review

Exercise A - Put the letter that denotes each of these sequences against the nth term rules that would produce the sequence.

A 7, 11, 15, 19, 23, 27....

B 5, 7, 9, 11, 13, 15...

C 11, 20, 29, 38, 47...

D 2, 7, 12, 17, 22, 27...

E 1, 11, 21, 31, 41, 51...

F 9, 16, 23, 30, 37, 44...

nth Term Rule	Letter
10n - 9	
9n + 2	
7n + 2	
4n + 3	
5n - 3	
2n + 3	

Exercise B - Calculate the nth term rule for each of these sequences and then use it to find the 20th term.

	Sequence	nth Term Rule	20th Term
1)	5, 7, 9, 11, 13...		
2)	8, 11, 14, 17, 20...		
3)	7, 11, 15, 19, 23...		
4)	11, 21, 31, 41, 51...		
5)	9, 14, 19, 24, 29...		
6)	1, 5, 9, 13, 17, 21...		
7)	3, 10, 17, 24, 31...		
8)	1, 10, 19, 28, 37...		

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A 7, 11, 15, 19, 23, 27....

B 5, 7, 9, 11, 13, 15...

C 11, 20, 29, 38, 47...

D 2, 7, 12, 17, 22, 27...

E 1, 11, 21, 31, 41, 51...

F 9, 16, 23, 30, 37, 44...

nth Term Rule	Letter
10n - 9	E
9n + 2	C
7n + 2	F
4n + 3	A
5n - 3	D
2n + 3	B

Exercise B - Calculate the nth term rule for each of these sequences and then use it to find the 20th term.

	Sequence	nth Term Rule	20th Term
1)	5, 7, 9, 11, 13...	2n + 3	43
2)	8, 11, 14, 17, 20...	3n + 5	65
3)	7, 11, 15, 19, 23...	4n + 3	83
4)	11, 21, 31, 41, 51...	10n + 1	201
5)	9, 14, 19, 24, 29...	5n + 4	104
6)	1, 5, 9, 13, 17, 21...	4n - 3	77
7)	3, 10, 17, 24, 31...	7n - 4	136
8)	1, 10, 19, 28, 37...	9n - 8	172

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