

Triangle in A317016

k	0	1	2	3	4	5	6	7	...
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n	Row Sum
	σ_n
0	1
1	1
2	8
3	15
4	71
5	176
6	673
7	1905
8	6616
9	19951
10	66263
11	205920
12	669761
13	2111201
14	5975985

1									
1									
1	7								
1	14								
1	21	49							
1	28	147							
1	35	294	343						
1	42	490	1372						
1	49	735	3430	2401					
1	56	1029	6860	12005					
1	63	1372	12005	36015	16807				
1	70	1764	19208	84035	100842				
1	77	2205	28812	168070	352947	117649			
1	84	2695	41160	302526	941192	823543			
1	91	3234	56595	504210	2117682	3294172	823543		

⋮

The row sums give A015442 (Generalized Fibonacci numbers), and the limit of their ratio is

$$\lim_{n \rightarrow \infty} \left(\frac{\sigma_n}{\sigma_{n-1}} \right) \rightarrow 3.192582403567252\dots$$