

Triangle in A305838

k	0	1	2	3	4	5	6	7	8
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n	Row Sum
	σ_n
0	1
1	1
2	6
3	11
4	41
5	96
6	301
7	781
8	2286
9	6191
10	17621
11	48576
12	136681
13	379561
14	1062966
15	2960771
16	8275601
17	23079456

1									
1									
1	5								
1	10								
1	15	25							
1	20	75							
1	25	150	125						
1	30	250	500						
1	35	375	1250	625					
1	40	525	2500	3125					
1	45	700	4375	9375	3125				
1	50	900	7000	21875	18750				
1	55	1125	10500	43750	65625	15625			
1	60	1375	15000	78750	175000	109375			
1	65	1650	20625	131250	393750	437500	78125		
1	70	1950	27500	206250	787500	1312500	625000		
1	75	2275	35750	309375	1443750	3281250	2812500	390625	
1	80	2625	45500	446875	2475000	7218750	9375000	3515625	

⋮

The sequence generated by the row sums is [A015440](#), and the limit of their ratio is

$$\lim_{n \rightarrow \infty} \left(\frac{\sigma_n}{\sigma_{n-1}} \right) \rightarrow 2.7913327 \dots$$

Reference:

Shara Lalo and Zagros Lalo, Polynomial Expansion Theorems and Number Triangles, Zana Publishing, 2018, ISBN: 978-1-9995914-0-3, pp. 381.