

ON PRIME NUMBERS⑬

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$$C[n] = \sqrt{\frac{P[n]}{4}} + \frac{1}{2}$$

$$D[n] = \frac{C[n]^2 + 7 \cdot C[n] - 6}{2}$$

$$\therefore P[n] = \text{nthPrimeNumber}$$

$$\lim_{n \rightarrow \infty} \frac{\ln(n)}{\ln(D[n])} = 1$$

n=Number	P(n)=nth primenumber	C(n)=((P(n))^0.5+1)/2	D(n)=((C(n))^2+7*(C(n))-6)/2	Ln(n)/Ln(D(n))
1	2	1.207106781	1.953427125	0
2	3	1.366025404	2.714101615	0.694215577
3	5	1.618033989	3.972135955	0.796497588
4	7	1.822875656	5.041502622	0.85695171
5	11	2.158312395	6.883249581	0.834298655
6	13	2.302775638	7.711102551	0.877169198
7	17	2.561552813	9.246211251	0.874875466
8	19	2.679449472	9.967797887	0.904356789
9	23	2.897915762	11.34166305	0.904772498
10	29	3.192582404	13.27032961	0.890565757
100	541	12.12970335	113.0188134	0.974112596
1000	7919	44.99438167	1166.727527	0.978164294
10000	104729	162.3093013	13737.23721	0.966674057
100000	1299709	570.523903	164742.5956	0.958440872
1000000	15485863	1968.104063	1943602.166	0.954106314
10000000	179424673	6697.974767	22454872.9	0.952211161
100000000	2038074743	22573.02059	254849631.8	0.951669012
1000000000	22801763489	75501.76404	2850522440	0.951884918
10000000000	252097800623	251047.2091	31513229264	0.95251767
100000000000	2760727302517	830772.3253	345094235901	0.953376616
1000000000000	29996224275833	2738440.945	3749538988240	0.954351926