$line: M_n = \sum_{j=0}^{n} (n-j+4) \frac{4}{\pi} 2^{2j} \frac{1}{(n-j)!} \left(\frac{\pi}{2}\right)^{n-j} < \left(\frac{16}{\pi} + \frac{1}{2}\right) e^{\pi/8} 2^{2n} < 8.3 \cdot 2^{2n}, N_n = \sum_{j=0}^{n} \frac{4}{\pi} 2^{2j} \frac{1}{(n-j)!} \left(\frac{\pi}{2}\right)^{n-j} < \frac{4}{\pi} e^{\pi/8}$

$\text{norm}_s tr:$