$$\frac{1}{c} \left| \mathbb{R}_{\Lambda}(x) \right| = \frac{\left(\frac{2}{\pi}\right)^{4} |x|^{2}}{2^{n}!} < 10^{-5} \longrightarrow \left[-1, 1\right]$$

$$\left| \mathbb{R}_{\Lambda}(x) \right| = \frac{\left(\frac{2}{\pi}\right)^{4} |-1|^{2}}{2^{n}!} = \left(\frac{2}{\pi}\right)^{4} \frac{1}{2^{n}!} = 10^{-5}$$

$$\frac{2^{n}!}{2^{n}!} < 10^{-5} \longrightarrow \Lambda! \approx \left(\frac{2}{\pi}\right)! \cdot 10^{5}$$

$$\Lambda \leq 10^{5}$$