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10 פעם

אנליזה

$(p_n)_{n \in \mathbb{Z}}$   $(p_n^{(k)})_{n \in \mathbb{Z}}$   $\textcircled{1}$

$$\sum_n p_n^{(k)} |n|^l$$

$$\sum_n p_n^{(k)} n^l \rightarrow \sum_n p_n n^l$$

$$(Ae)^{2l} \geq \sum_n p_n n^{2l}$$

$(\textcircled{1})$   $(\textcircled{2})$   $(\textcircled{3})$

$$\frac{k}{N} \rightarrow 0, N \rightarrow \infty \textcircled{2}$$

$$\binom{2N}{N+k} = 2^{2N} \cdot \frac{1}{\sqrt{\pi N}} \cdot \exp(-k^2/N) \cdot (1+o(1))$$

$(\textcircled{3})$   $(\textcircled{4})$   $(\textcircled{5})$

$$F(z) = \int \exp(-2\pi i \xi z) d\mu(\xi)$$

$$|F(x+iy)| \leq O(e^{-2\pi R|y|})$$

$$\lim_{r \rightarrow +\infty} \frac{1}{r} \log_2 \max_{\theta} |F(re^{i\theta})| = 0$$

$$\int_{-\infty}^{\infty} \frac{|F(x)|^2}{1+x^2} dx < \infty$$

$$\forall f \in C^\infty(\mathbb{T}) \quad \forall n \quad \|f^{(n)}\|_\infty \leq R_f \cdot M_n \textcircled{5}$$

$$\forall f \in C^\infty(\mathbb{T}) \quad \forall n \quad \|f^{(n)}\|_2 \leq R_f \cdot M_n$$

$$\forall n \quad \int x^n dx = \int x^n dv = \int_k \dots \textcircled{6}$$