


$$B_n(f; x) = \sum_{k=0}^n x^k (1-x)^{n-k} \binom{n}{k} f\left(\frac{k}{n}\right)$$

when $n \rightarrow \infty$

$$B_n(f; x) = \lim_{n \rightarrow \infty} \sum_{k=0}^n x^k (1-x)^{n-k} f\left(\frac{k}{n}\right) \binom{n}{k}$$

$$\text{易知 } x^k (1-x)^{n-k} \binom{n}{k} \xrightarrow{n \rightarrow \infty} \delta_{\frac{k}{n}}$$