Z 7

Kombinacja barycentryczna punktów $(W_0, W_1, \dots, W_n)$

$$\sum_{k=0}^{n} \alpha_k W_k \quad , \quad \alpha_0 + \alpha_1 + \dots \alpha_n = 1$$

$$R_n(t) = \frac{\sum_{k=0}^{n} w_k W_k B_k^n(t)}{\sum_{k=0}^{n} W_k B_k^n(t)} = \frac{\sum_{k=0}^{n} w_k W_k B_k^n(t)}{S_n(t)}$$

$$= \sum_{k=0}^{n} \frac{1}{S_n(t)} w_k B_k^n(t) W_k = \sum_{k=0}^{n} \alpha_k W_k$$

$$\sum_{k=0}^{n} \alpha_k = \frac{1}{S_n(t)} \sum_{k=0}^{n} w_k B_k^n(t) = \frac{1}{S_n(t)} S_n(t) = 1$$