p. Maurycy

czwartek, 26 listopada 2020 14:09

$$\langle f, g \rangle = \int_0^{\hat{}} w(x) \cdot f(x) g(x)\, dx \qquad w(x) = x$$

Ciąg wiel. ortog. $P_0, P_1, \ldots P_n$

$$w_n^*(f) = \sum_{i=0}^{n} \frac{\langle f, P_i \rangle}{\langle P_i, P_i \rangle} P_i(x)$$

$$w_{n+1}^*(f) = \sum_{i=0}^{n+1} \text{———}$$

$$P_0(x) = \alpha_0 \qquad P_1(x) = (\alpha_1 x - \beta_1) P_0(x)$$

$$P_k(x) = (\alpha_k x - \beta_k) P_{k-1}(x) - \gamma_k P_{k-2}$$

a) $\alpha_k, \beta_k, \gamma_k = ?$ do 5.XI

b) jak wyznaczać $\langle f, g \rangle$ do 10.XII

tekst w TeXu