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$$C(t) = \frac{\sin t^3 + 2}{A \cdot \ln(t^4+1) + B \cdot e^{3t} + 1}$$

Niech $f(t) = \dfrac{\sin t^3 + 2}{C(t)} - 1 = A\ln(t^4+1) + Be^{3t}$

możemy przybliżyć $f(t)$ przez $\operatorname{lin}\{\underbrace{\ln(t^4+1)}_{g_0(t)}, \underbrace{e^{3t}}_{g_1(t)}\}$

$$\begin{bmatrix} \langle g_0, g_0\rangle & \langle g_0, g_1\rangle \\ \langle g_1, g_0\rangle & \langle g_1, g_1\rangle \end{bmatrix} \begin{bmatrix} A \\ B \end{bmatrix} = \begin{bmatrix} \langle g_0, f\rangle \\ \langle g_1, f\rangle \end{bmatrix}$$

$$A \cdot \sum_{k=0}^{N} g_0(t_k)^2 + B \cdot \sum_{k=0}^{N} g_0(t_k)\cdot g_1(t_k) = \sum_{k=0}^{N} g_0(t_k)\cdot f(t_k)$$

$$A \cdot \sum_{k=0}^{N} g_1(t_k)\cdot g_0(t_k) + B \sum_{k=0}^{N} g_1(t_k)^2 = \sum_{k=0}^{N} g_1(t_k)\cdot f(t_k)$$