

10.3

$$f(w) = \sum_{k=0}^r \frac{e^{x_k} + 2020}{1 + \ln(x_k^2 + 1)} \cdot \left[ y_k - a (\cos(2x_k + 2020) + x_k^3) \right]^2$$

z  
wtedy  $\frac{e^{x_k} + 2020}{1 + \ln(x_k^2 + 1)} = w_k$

Utedy  $f(w) = \sum_{k=0}^r w_k \left[ y_k - a (\cos(2x_k + 2020) + x_k^3) \right]^2$

Rybníci  $y_k$  přes  $U = \{ \cos(2x_k + 2020) + x_k^3 \}$   
 $-g_0(x)$

Wj:

$$\begin{aligned} \langle g_0, g_0 \rangle \cdot a &= \langle g_0, y \rangle \\ a &= \frac{\langle g_0, y \rangle}{\langle g_0, g_0 \rangle} = \frac{\sum_{k=0}^r g_0(x_i) \cdot y_i \cdot w_k(x_i)}{\sum_{k=0}^r w_k(x_i) \cdot g_0(x_i)^2} \end{aligned}$$