

$$\sum_{n=1}^N a_n y_n K(x_n, x) + y_s - \sum_{n=1}^N a_n y_n K(x_n, x_s) = \sum_{n=1}^N \tilde{a}_n y_n \tilde{K}(x_n, x) + y_s - \sum_{n=1}^N \tilde{a}_n y_n \tilde{K}(x_n, x_s)$$