$\sum_{n=1}^{\infty} \alpha_n y_n K(x_n, x) + y_s - \sum_{n=1}^{\infty} \alpha_n y_n K(x_n, x_s) = \sum_{n=1}^{\infty} \alpha_n^2 y_n K^{\sim}(x_n, x) + y_s - \sum_{n=1}^{\infty} \alpha_n^2 y_n K^{\sim}(x_n, x_s)$