$$\begin{cases} z_1 = \\ z_1 = \\ (x_1, y_1), \dots, z_N = \\ (x_N, y_N), \end{cases}$$

$$R(f) := \frac{1}{N} \sum_{i=1}^{N} c(f, z_i)$$

$$R(f_S) - R_N(f_S) = \frac{1}{N} \sum_{i=1}^{N} c(f, z_i)$$

$$R(f_S, z_i) = \frac{1}{N} \sum_{i=1}^{N} c(f_S, z_i)$$

$$R(f_S, z_i) = \frac{1}{N} \sum_{i=1}^{N} c$$

y