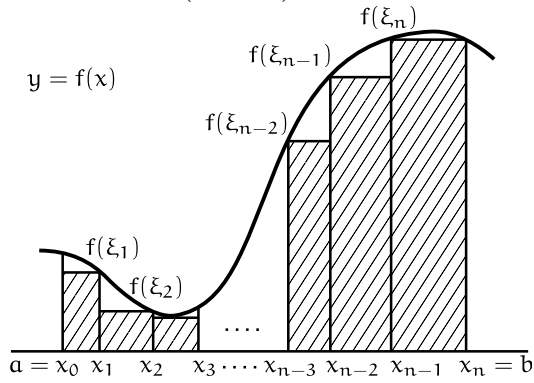
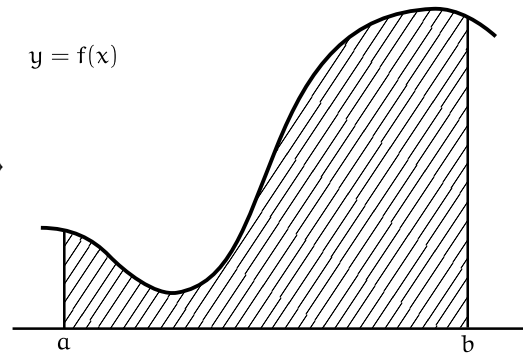


1. Riemann 和 (一変数)



$|\Delta| \rightarrow 0$

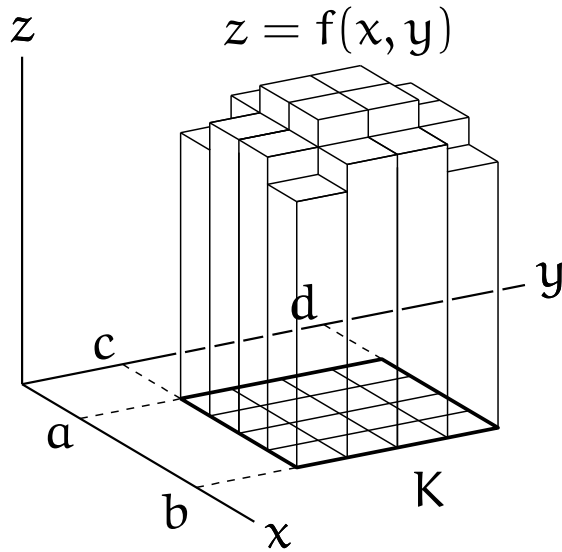


$$S(\Delta, \{\xi_i\}) = \sum_i f(\xi_i) \Delta x_i$$

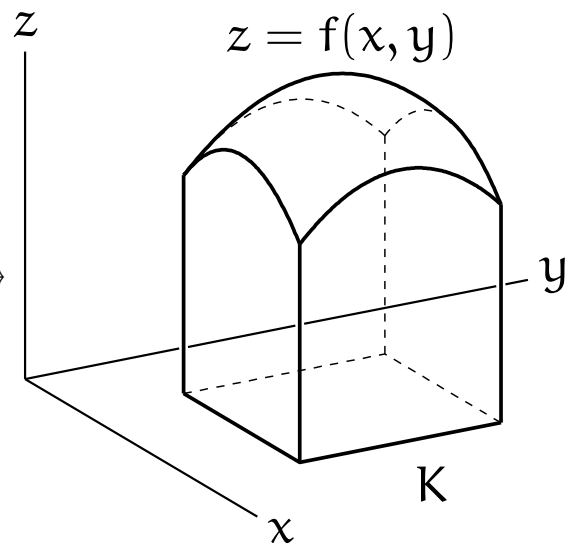
\longrightarrow

$$\int_a^b f(x) dx$$

2. Riemann 和 (二変数)



$|\Delta| \rightarrow 0$

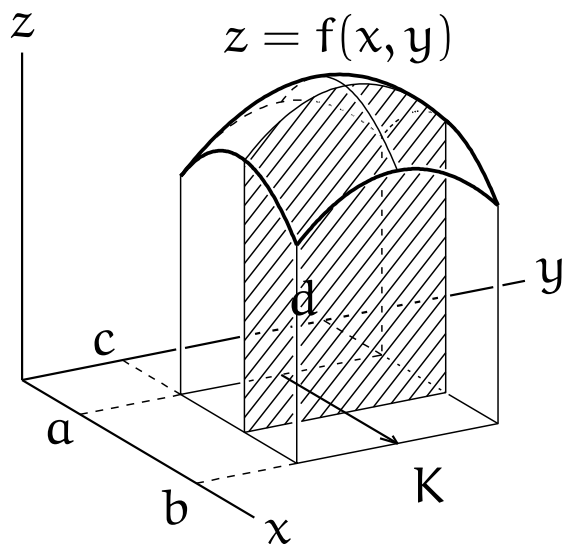


$$S(\Delta, \{(\xi_i, \zeta_j)\}) = \sum_{i,j} f(\xi_i, \zeta_j) \Delta x_i \Delta y_j$$

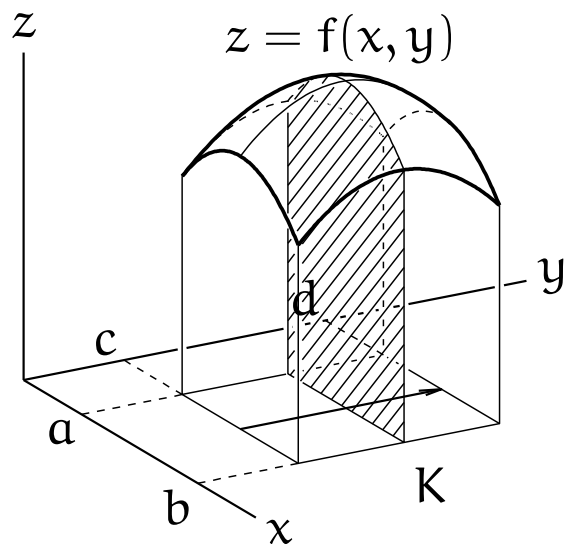
\longrightarrow

$$\iint_K f(x, y) dx dy$$

3. 累次積分



$$\int_a^b \left(\int_c^d f(x, y) dy \right) dx$$



$$\int_c^d \left(\int_a^b f(x, y) dx \right) dy$$