Recap:
$$\zeta$$

(f) = $\int f(x) \rho(x) dx$ with POF $\rho(x)$

Normalized $1 = \int \rho(x) dx$
 $\int_{N} = \frac{1}{N} \sum_{i=1}^{N} f(x_i)$ villy x_i from PDF $\rho(x_i)$

is an approximation for $\partial_{x_i} f(x_i)$

Special Case: $\rho(x_i) = cousk = \frac{1}{\delta - a}$

(f) $\rho = \frac{1}{\delta - a} \sum_{i=1}^{N} f(x_i) dx = \frac{1}{\delta - a}$

In $\rho(x_i)$ is approximation for $\rho(x_i)$ is approximation for $\rho(x_i)$ is approximation for $\rho(x_i)$

Importance Sampling:

 $\rho(x_i) = \int_{x_i} f(x_i) dx = \int_{x_i} f(x_i) dx$

with normalised $\rho(x_i) = \int_{x_i} f(x_i) dx$
 $\rho(x_i) = \int_{x_i} f(x_i) dx$