$$f(x) = \begin{cases} \exp x & if x < 0 \\ if 0 \le x < 2 \\ x^3 + x^2 + 1if 2 \le x < 6 \end{cases}$$

$$(1)$$

$$f:$$

$$R^d \to \emptyset$$

$$\phi:$$

$$[0,\infty) \to \mathbb{R}$$

$$f(x) = \phi(||x||), x \in \mathfrak{P}$$

$$\phi(||x||), x \in \mathbb{R}^d$$

$$||...|$$

$$||...|$$

$$x_1, ..., x_N \in \mathbb{R}^d \to \mathbb{R}^d$$

$$\lambda_1, ..., \lambda_N \to \to \mathbb{R}^d$$

$$\lambda_1, ..., \lambda_1, \dots$$

$$\lambda$$