





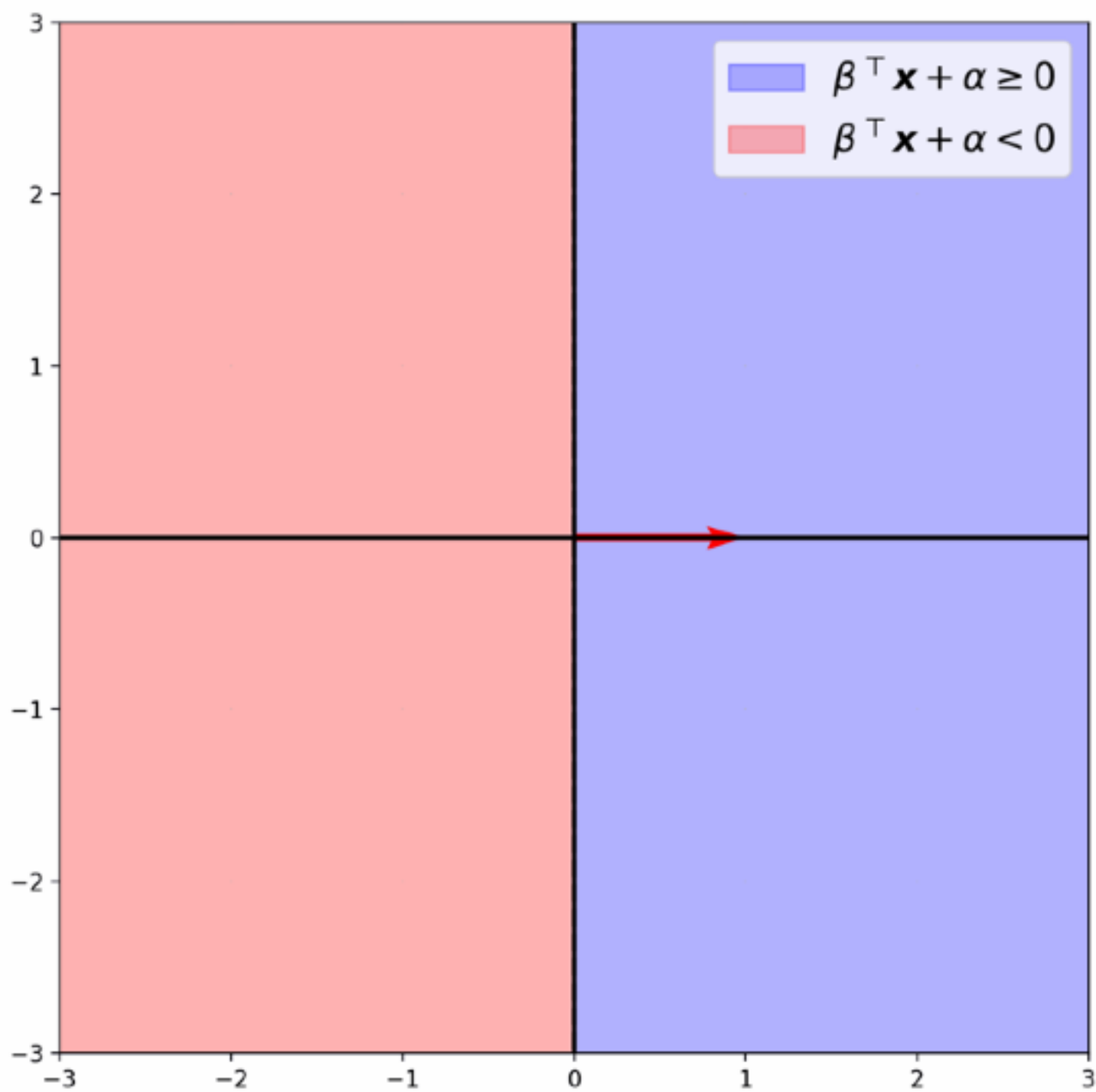
I N S E A



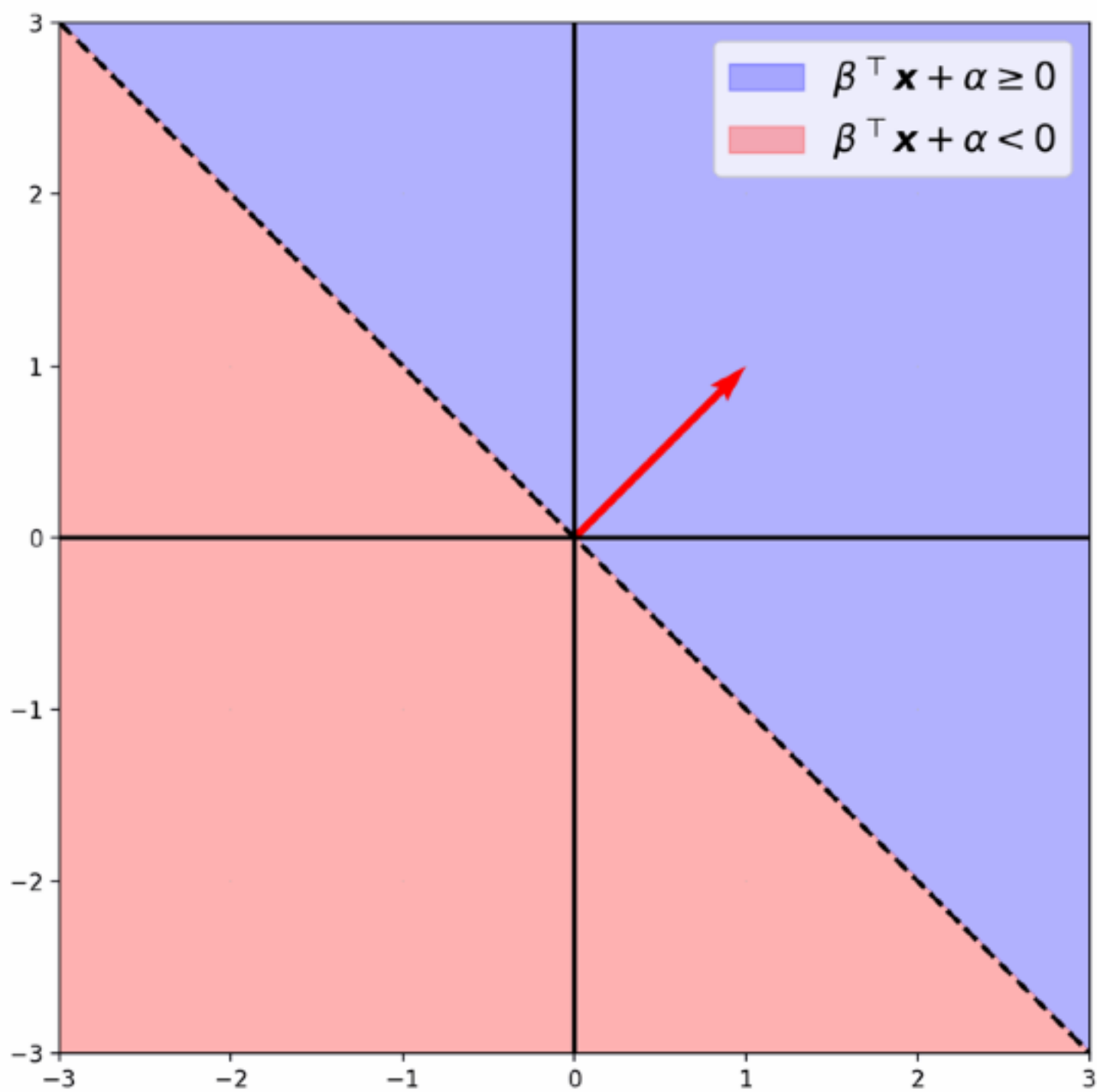
1

5

Comment change la fonction de prédiction  $f: \mathbb{1}_{\{\alpha + \beta \tau_{\mathbf{x}} \geq 0\}}$  en fonction de  $\alpha$  et  $\beta$ ?



$\alpha \equiv 0$ ,  $\beta$  *varies*:

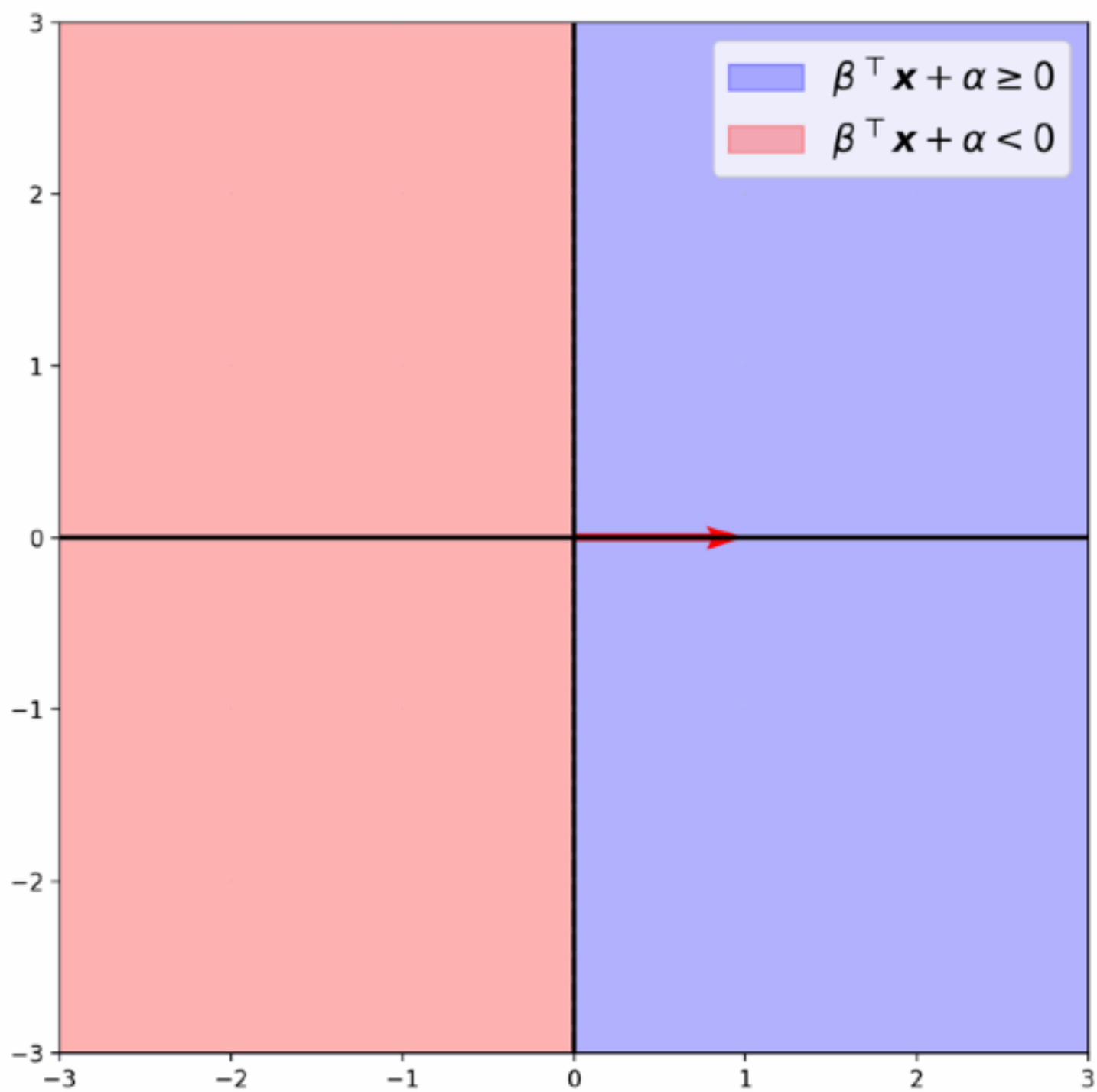


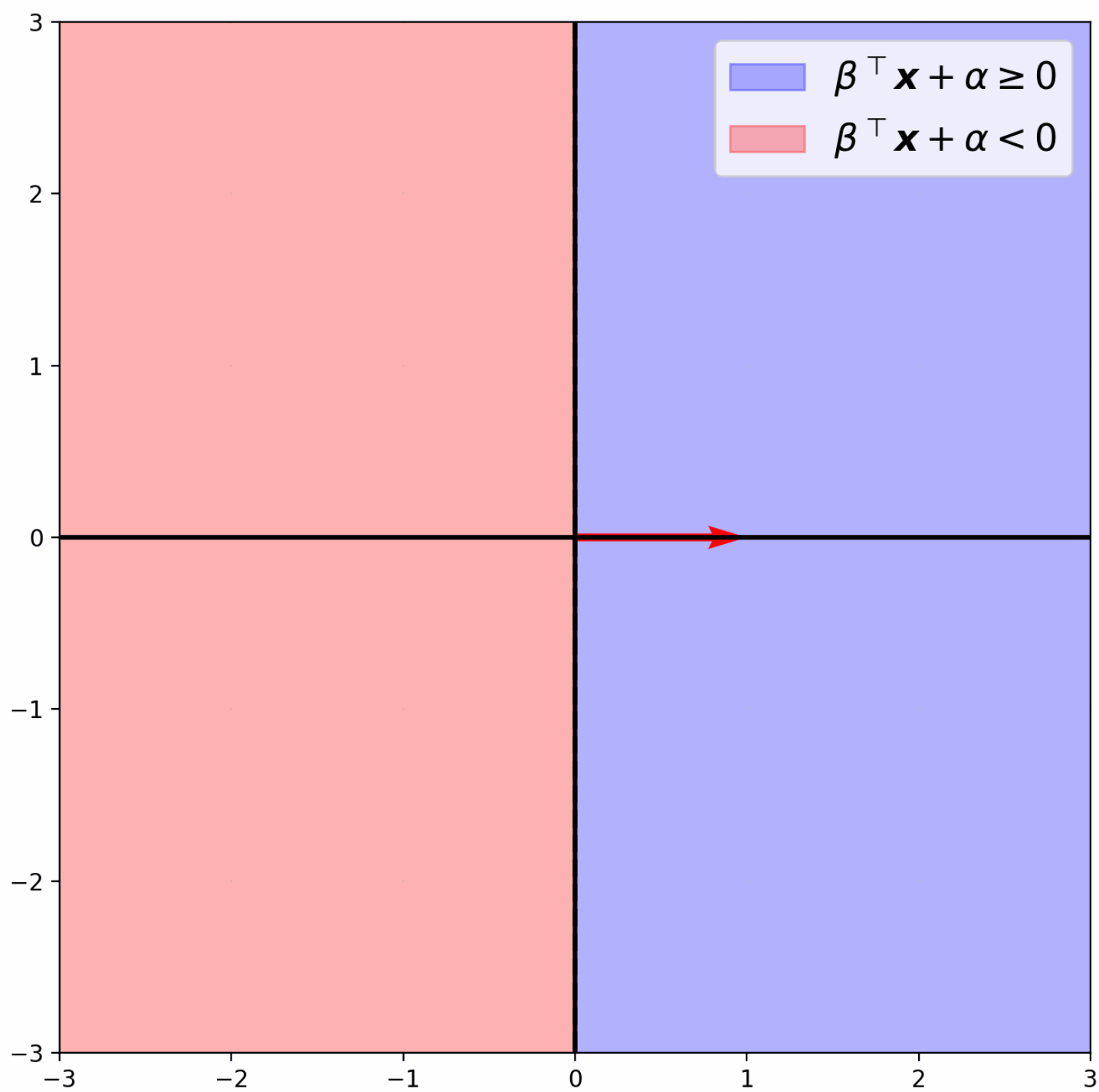


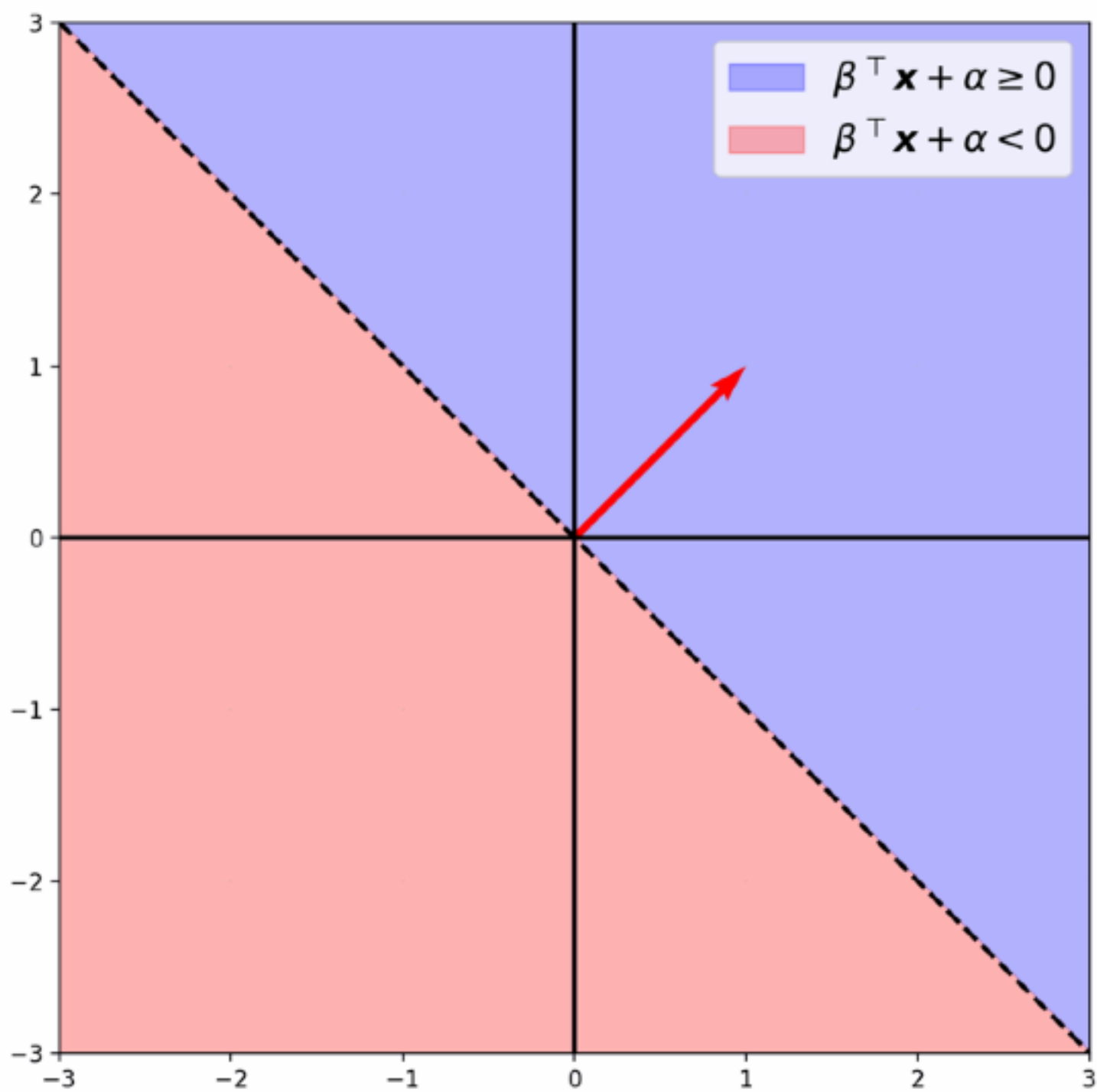
$$\alpha \text{ varie, } \beta \equiv [1, 1]:$$

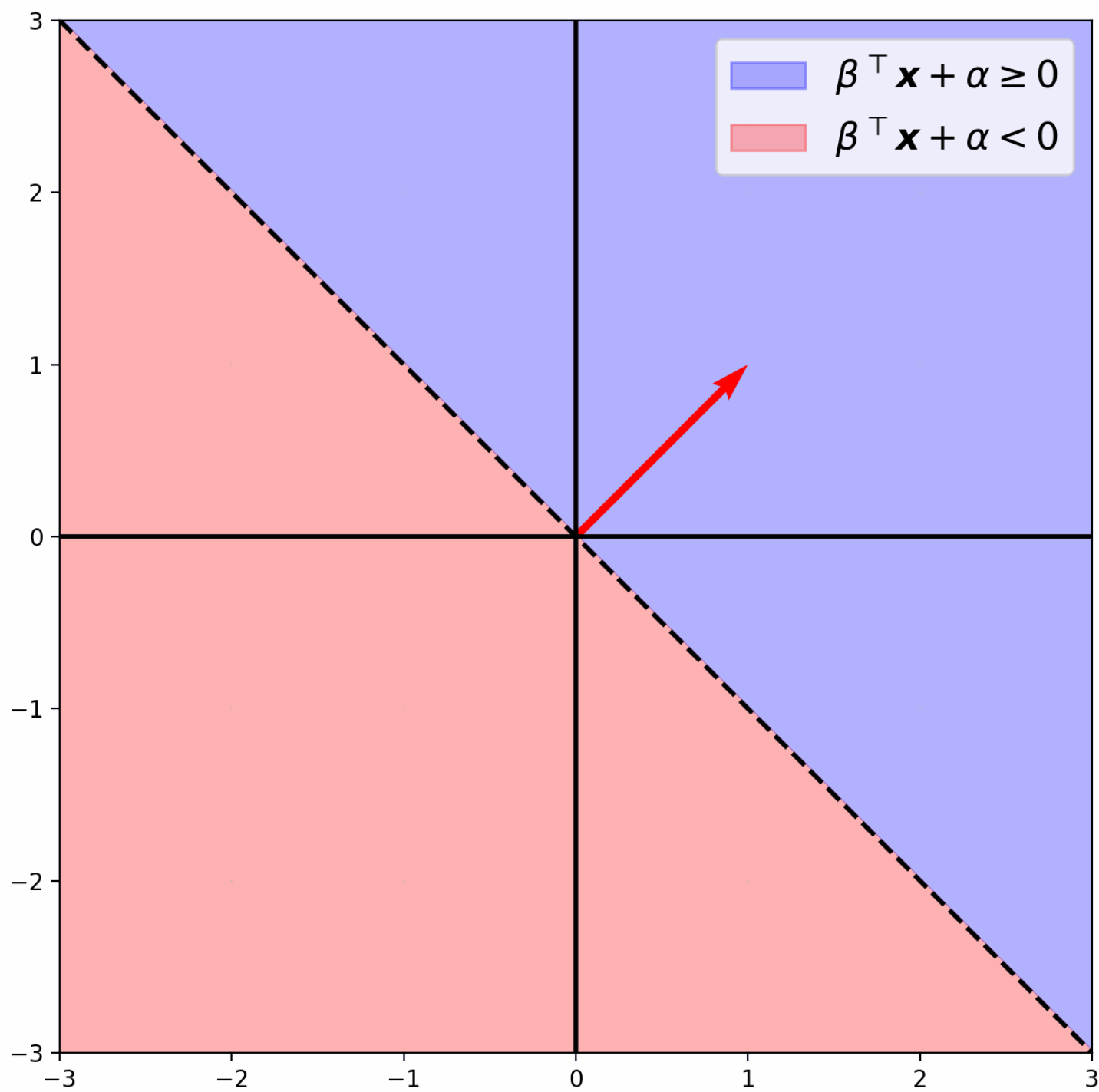
Machine learning classic: zero-to-hero

séparatément en dimension 2

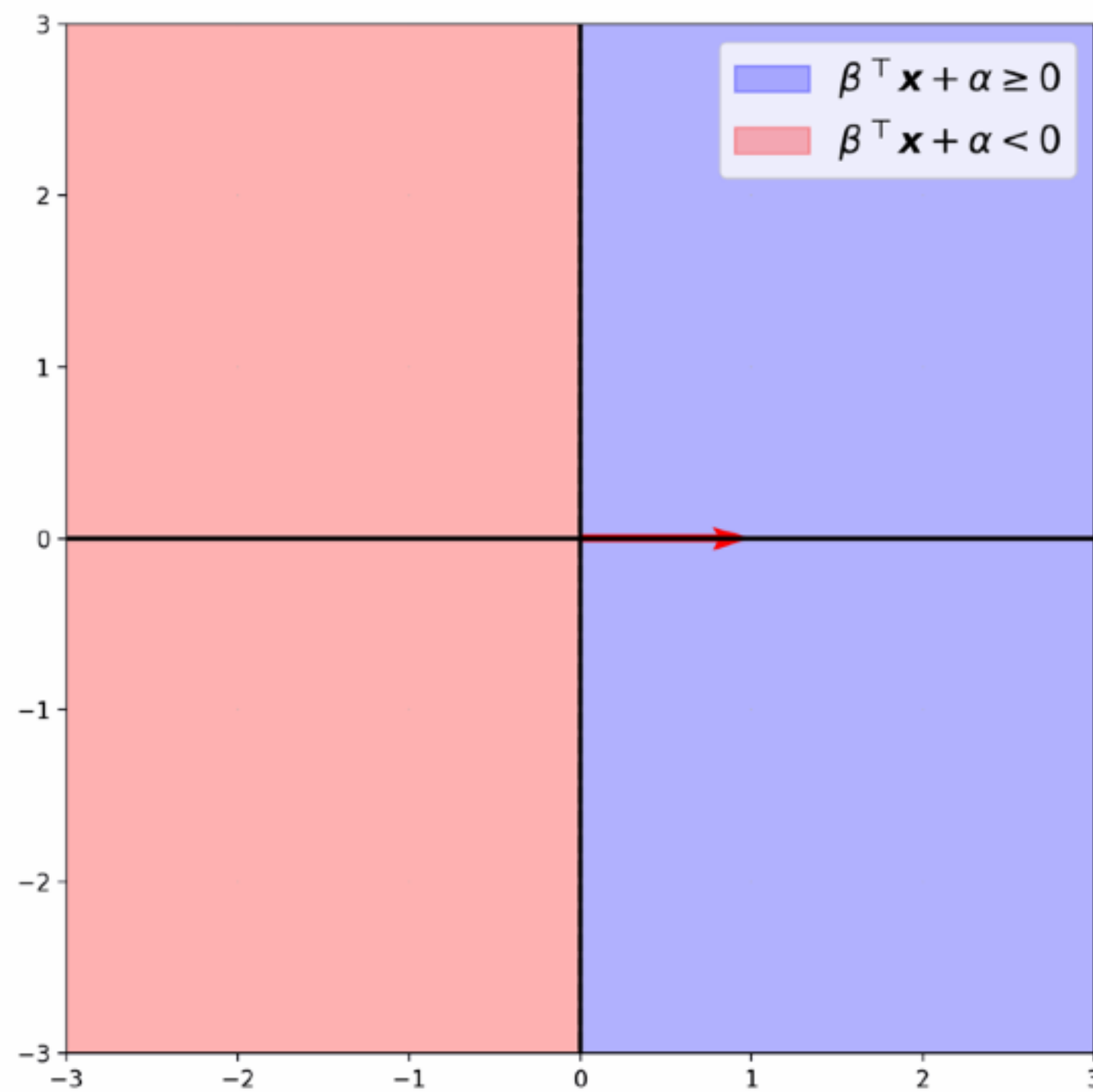




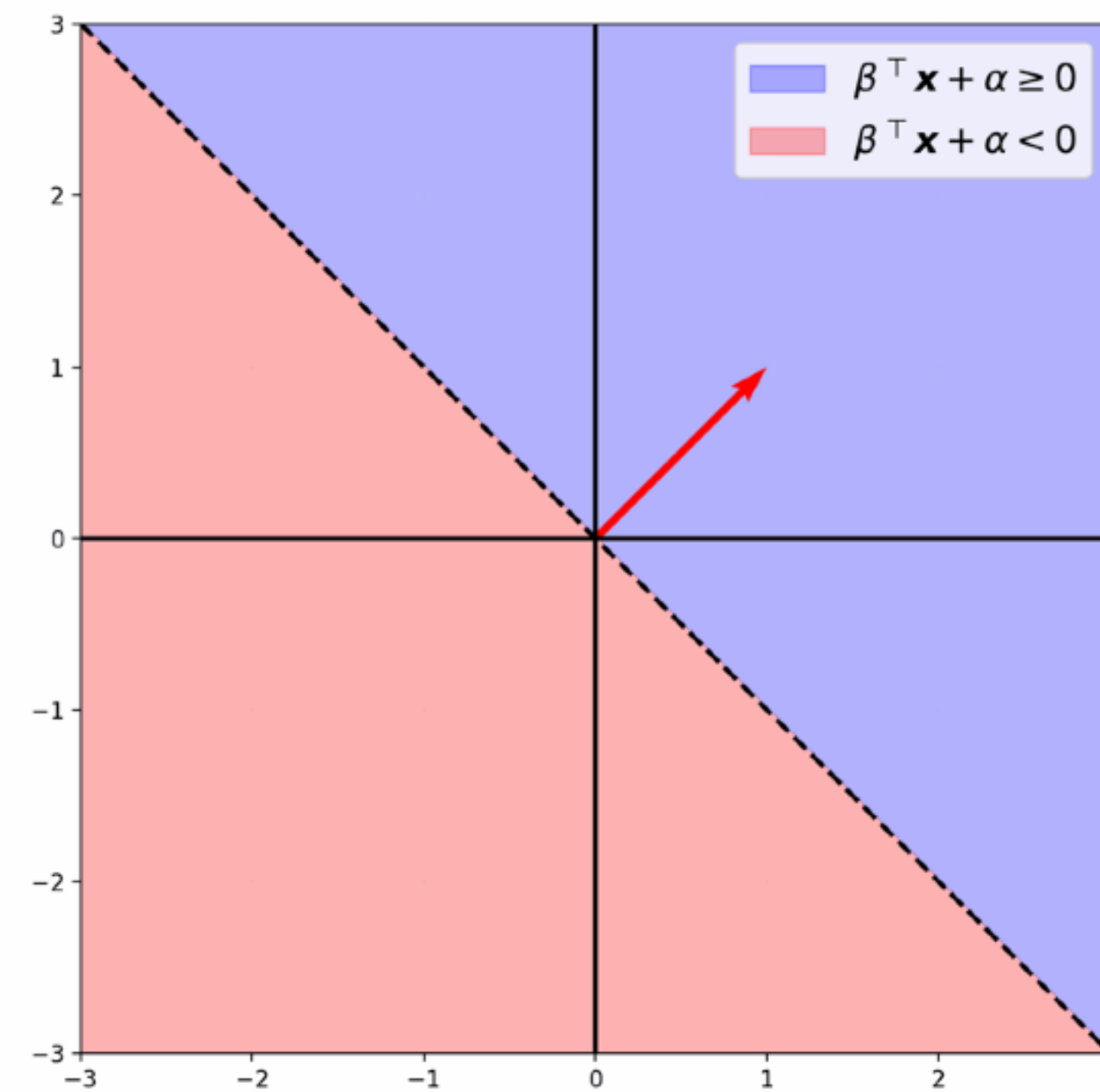




$\alpha = 0$ ,  $\beta$  varie:



$\alpha$  varie,  $\beta = [1, 1]$ :



Comment change la fonction de prédiction  $f : \mathbb{1}_{\{\alpha + \beta^\top \mathbf{x} \geq 0\}}$  en fonction de  $\alpha$  et  $\beta$  ?



$$\min_{\alpha \in \mathbb{R}, \beta \in \mathbb{R}^2} \sum_{i=1}^n (\mathbb{1}_{\{\alpha + \beta^\top \mathbf{x}_i \geq 0\}} - y_i)^2$$

