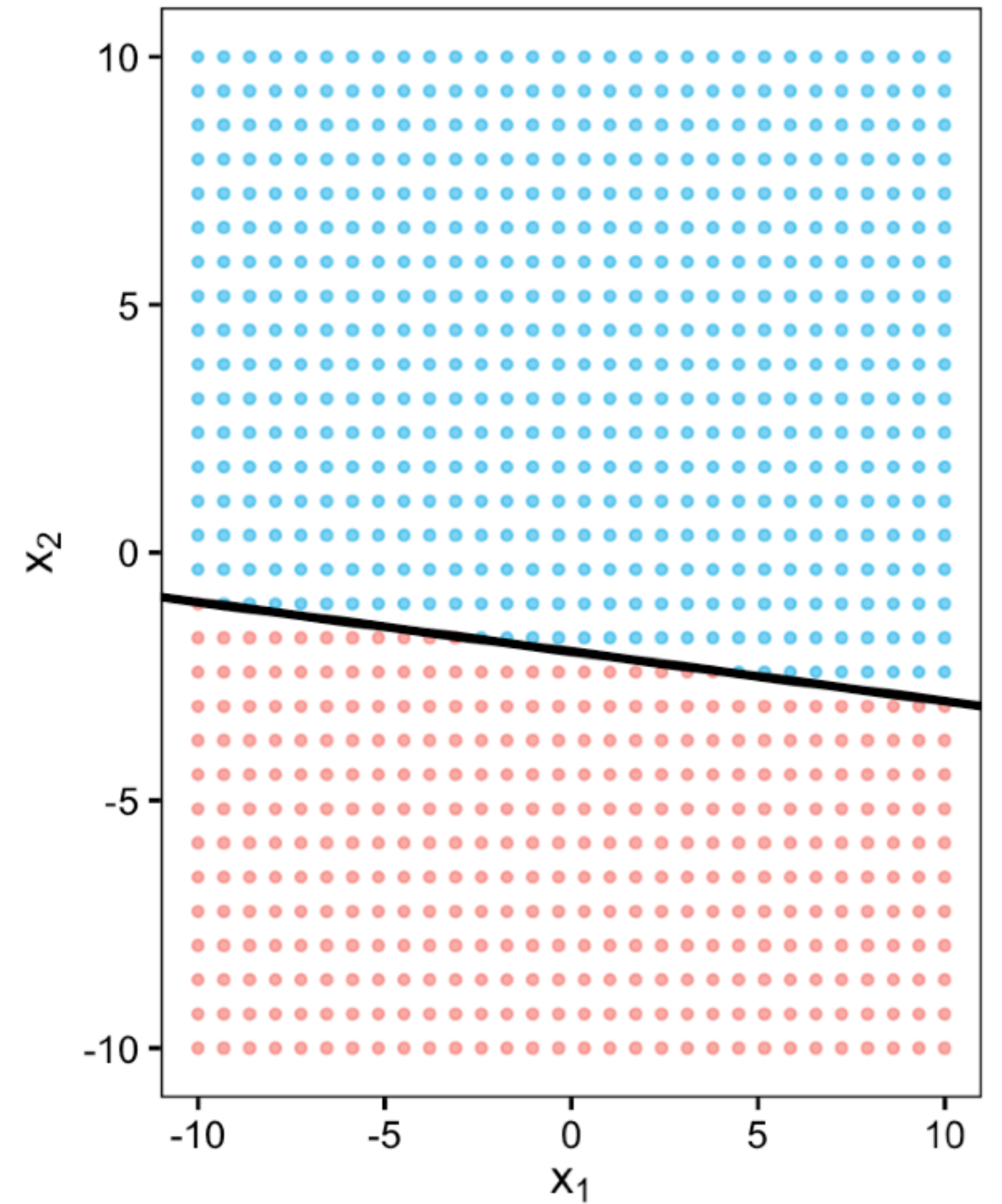
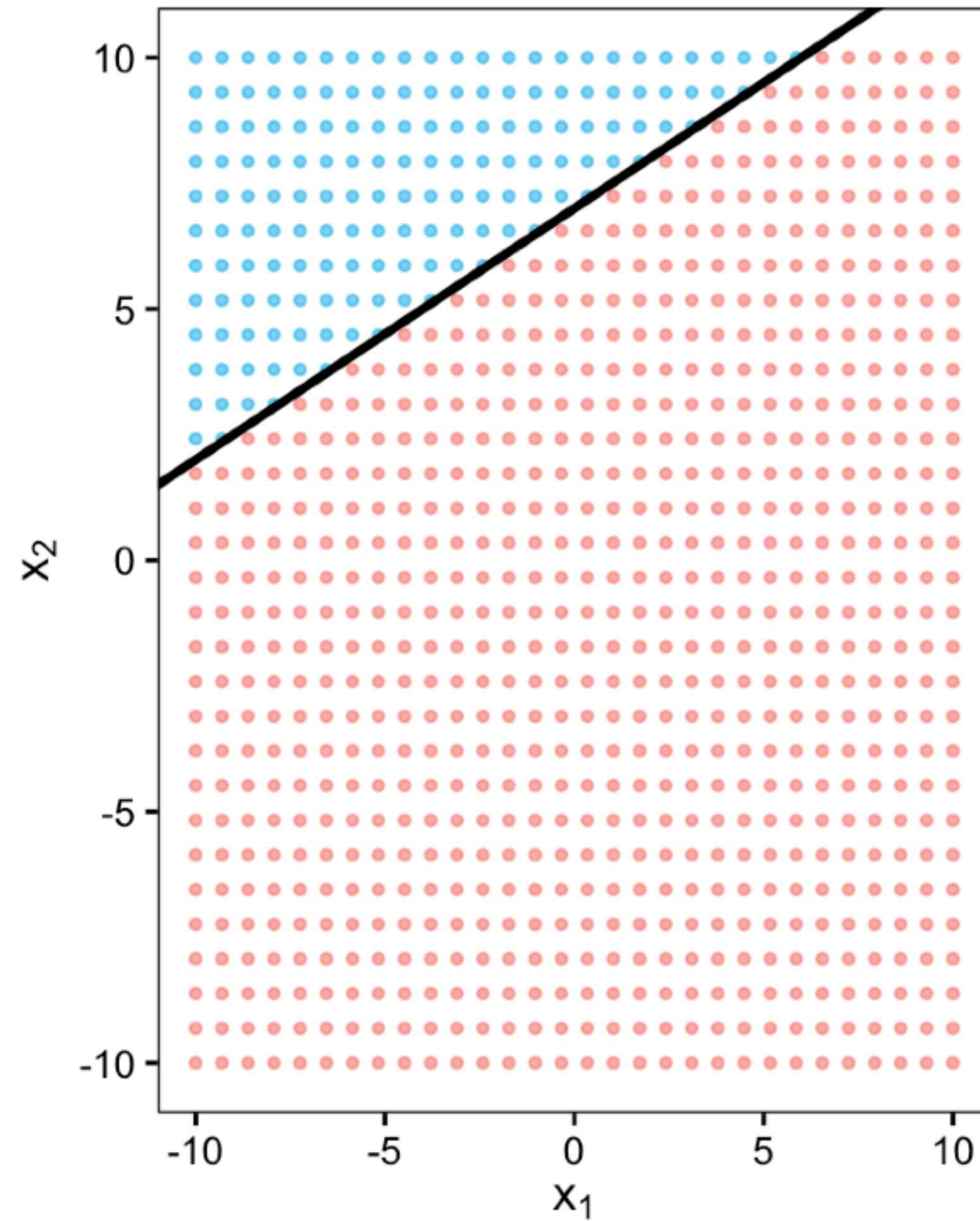
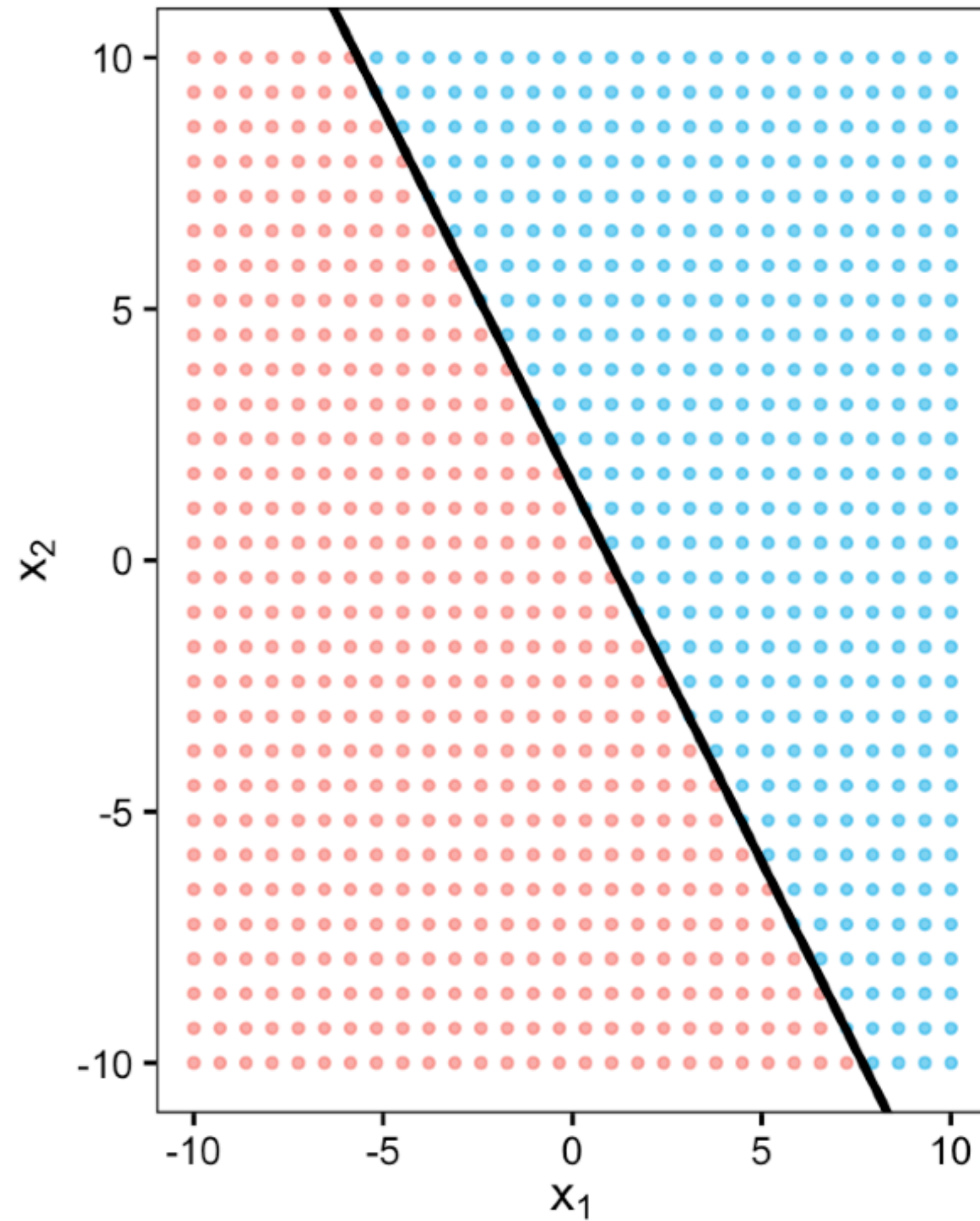
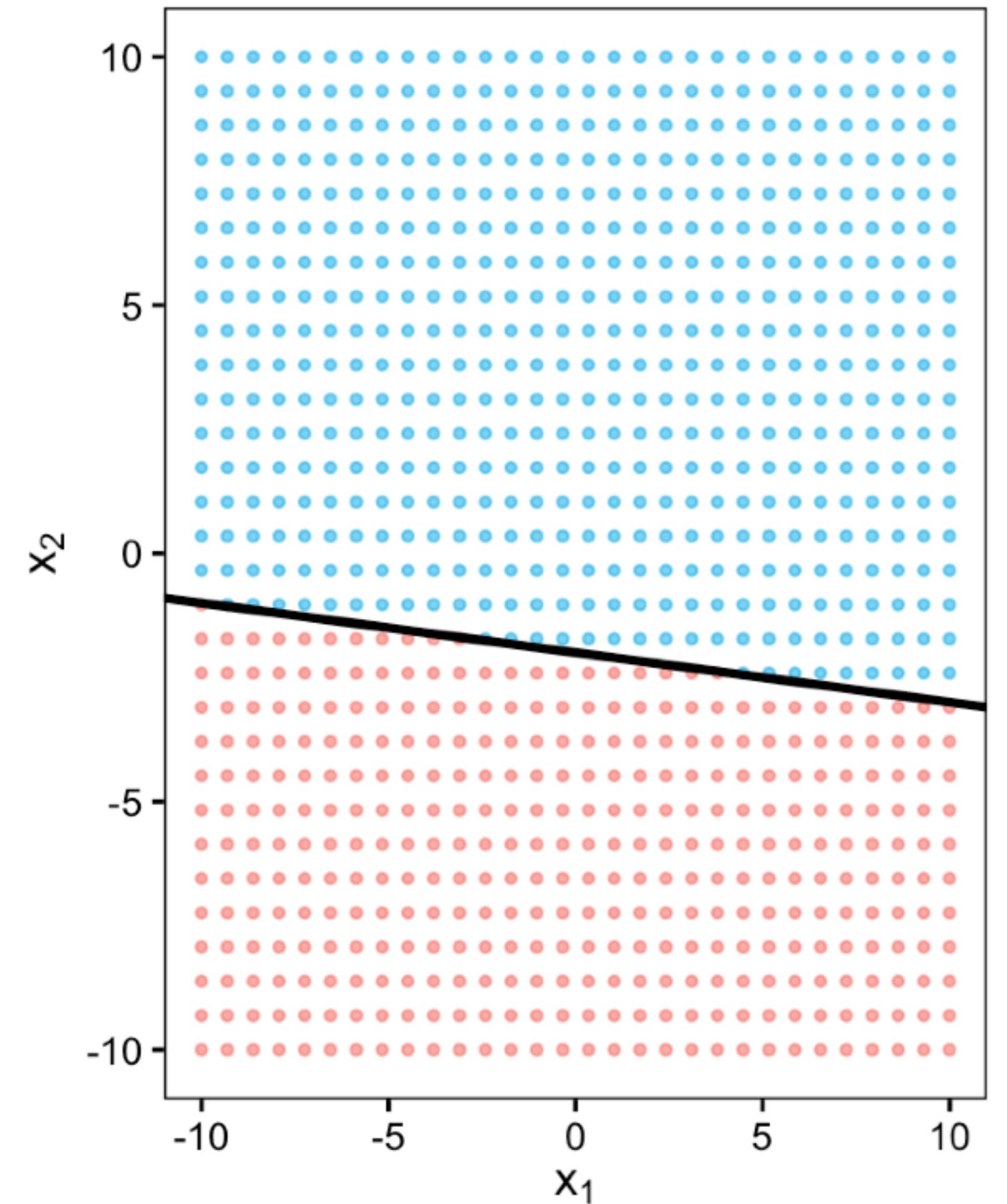
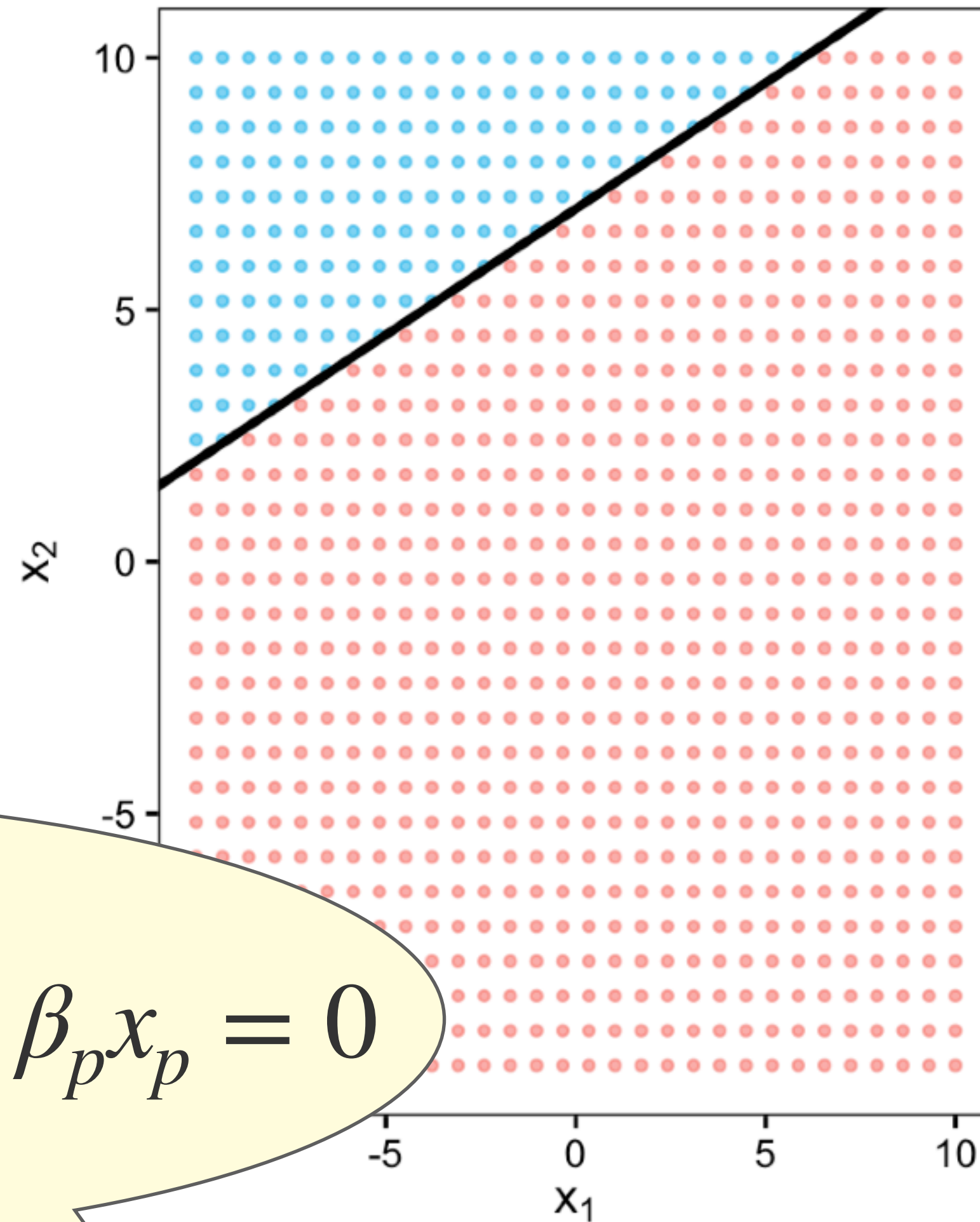
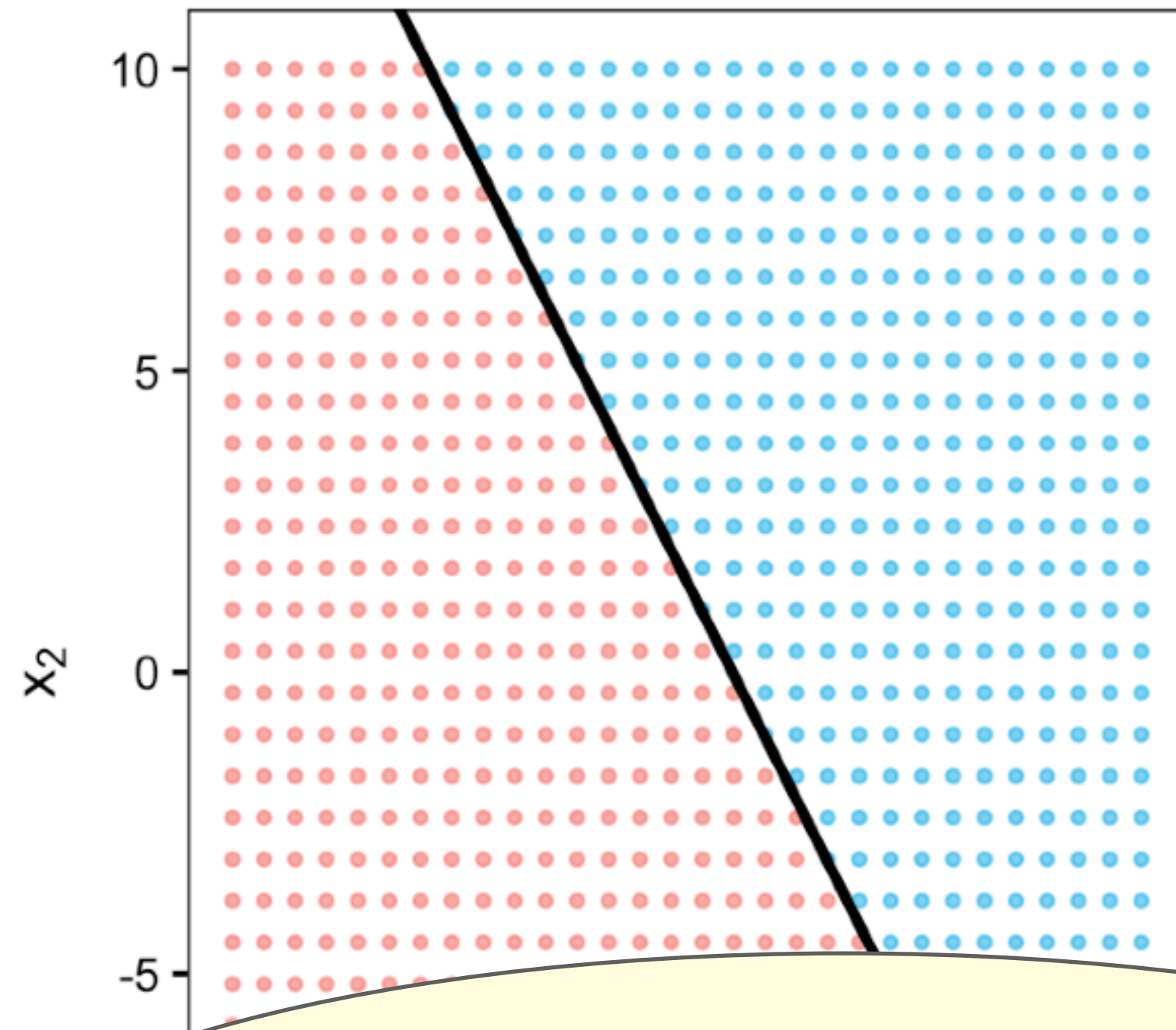


Hyperplanes Divide the Space in Half



$$\beta_0 + \beta^T x = 0$$

Hyperplanes Divide the Space in Half



$$\beta_0 + \beta_1 x_1 + \beta_2 x_2 + \cdots + \beta_p x_p = 0$$

$$\beta_0 + \beta^T x = 0$$