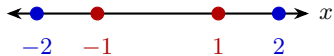
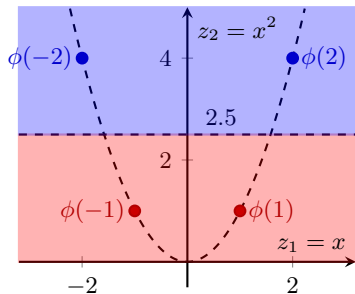


(a) Original input space

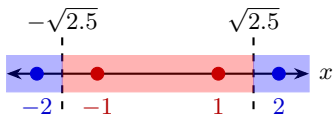


$$\phi(x) = (x, x^2)$$

(b) Feature space with decision region



(c) Input space with decision boundary



$$\phi^{-1}$$

● -1 example ● +1 example ■ Region classified as -1 ■ Region classified as +1