



$$\text{if } \theta = \begin{bmatrix} 5 \\ -1 \\ 0 \end{bmatrix} \Rightarrow h_0(x) = (5 - x_1)$$

$$h_0(x) \geq 0.5 \Rightarrow \theta^T x = 5 - x_1 \geq 0$$

$$\boxed{x_1 \leq 5}$$

