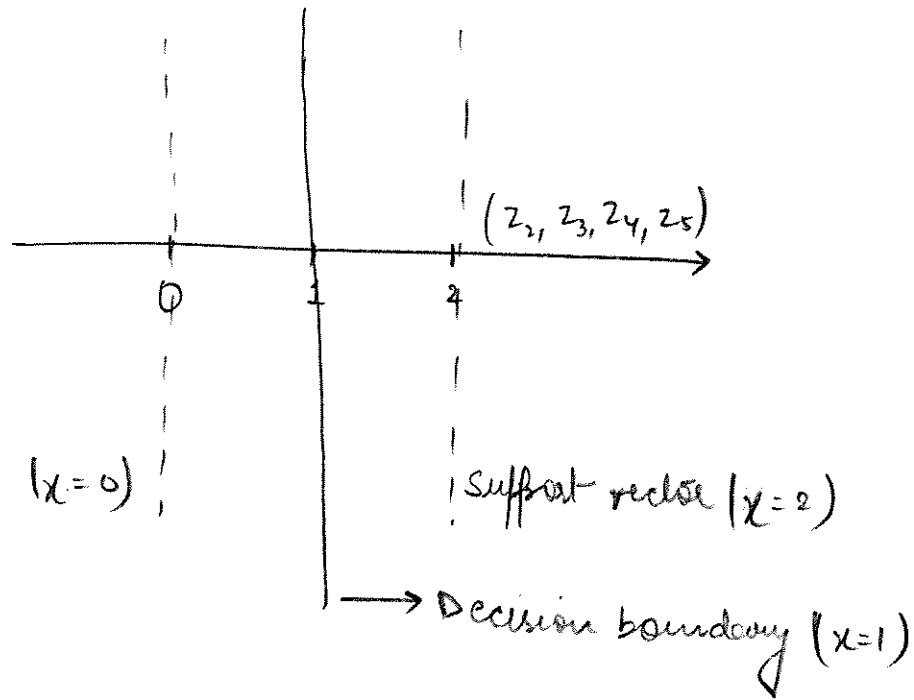


5.2  
②

from 5.2)  
①



$\therefore z_1 = k(x_1)$  is the support vector for positive points &

$z_2, z_3, z_4, z_5$  are the support vectors for the half space.

Hence, we can select one of  $(z_2, z_3, z_4, z_5)$  as the support vector for the half space.

$\therefore$  the SVM can be -

$$\text{If } y = -1, \quad 1 - z \leq -1 \quad \&$$

$$\text{If } y = 1, \quad 1 - z \geq 1 \quad \underline{\underline{\text{Ans}}}$$