

$$\overline{\omega}. \overline{U} + b \geqslant 0$$

$$\overline{\omega}. x_{i} + b \geqslant 1$$

$$\overline{\omega}. x_{i} + b \leqslant -1$$

$$\operatorname{Define} \quad \exists_{i=1} \text{ for } x_{i}$$

$$\exists_{i} (\overline{\omega}. x_{i} + b) > 1$$

$$\exists_{i} (\overline{\omega}. x_{i} + b) > 1$$

$$\forall_{i} (\overline{\omega}. x_{i} + b) > 1 = 0$$

$$\exists_{i} (\overline{\omega}. x_{i} + b) - 1 = 0$$

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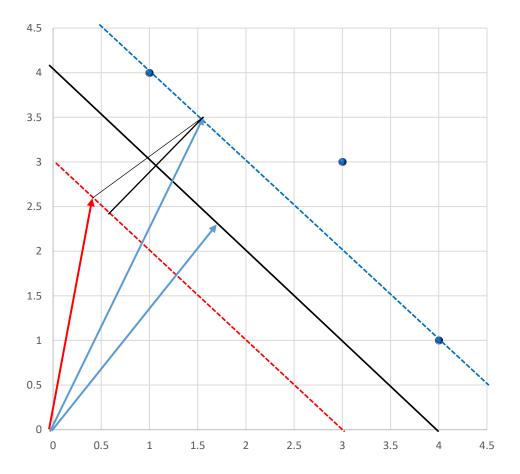
$$\exists_{i} (\overline{\omega}. x_{i} + b) - 1 = 0$$

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$$\exists_{i} (\overline{\omega}$$



A shin /2 11 WIL 8.t. = y: (wx;+b)-1 = 0 for all: = >= Min 1 | | | | | - Z. \alpha_i [y_i (\overline{u} \times_i + b) - 1] Ser = W - Zai yixi = 0 => W = Zixi yixi (OL = | Z x y = 0 | Mix = 1 Zx, y, x, Z, x, y, x, - Z, x, y, x, Z, x, y, x, - Zxtib + Zx. Marix L = Z. xi. -1/2 Z. Z. xixj. yiy. Xixj. Pefino Itij = yiki · jikj => L = Zi xi - 1 Zizi xi Hijxi MaxL = Zai - 1 2 Ha

