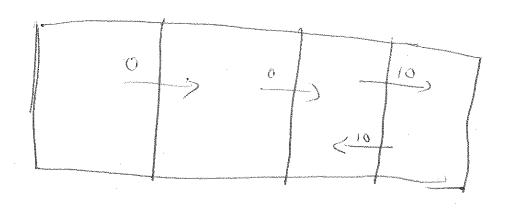
- D'hineor mernel some the data is lineally Separable.
- (e) (o) . m/m = 1
  - 5) 2 = 4
- 13) No because the training from = 0.

  Adoboosting Connot really "boost" its performance of this classifier.

Using support vector 
$$(0,0)$$
  
 $6 - \left[ (-1)(0) + \left( \frac{1}{2}(1)(0) \right) \right]$ 

Meed to try a different kerned or Change the "cost" factor in

5). 1).



$$Q(A,B) = 0 + \sqrt{.0 + 3^{2}.10 + 3^{3}.10 + ...}$$

$$= 10 \left[ 3^{2} + x^{3} + ... \right]$$

$$= 10 x^{2} \left[ \frac{1}{1-x} \right]$$

$$= 10 x^{2} \left[ \frac{1}{1-x} \right]$$

Q(B,A)= 0+1.0+8.0+7.10+7.10+

Q(0,c)= 0+ V-10+V-10+8310+---

 $\alpha(c,0) = 0 + (0 + \sqrt{2}, 10 + \sqrt{3}, 10 + \dots)$ 

The idea of charging no weight is sent or correctly classified example will not produce the desped scoult. Specifically, the main idea of adabouting is to reduce both bias and variance. Increasing weight of correctly classified point is unlikely to reduce bird since incorrectly Classified points are las likely to be Classified Correctly in a subsequent iteration. The voriance of the Classifier may reduce Since we are averaging across many

Classifier &