- $\bigvee$  W^T\*X + b = 0 is the equation of the hyperplane.  $\bigvee$
- If X is a point outside of the hyperplane, W^T\*X + b indicates the distance of X from the hyperplane.

  W is unit length.
- W is a vector and orthogonal to the hyperplane.

## **X** Incorrect

- 3. Can Linear Regression be used to solve classification? Justify your answer. \* ......
  - No. Classification requires a discrete-value output, but linear regression outputs a continuous range

**Correct answers:** 

regression cost function is very sensitive to outliers. Hence given some outliers, the line predicted by linear regression can shift toward the outliers. As a result, points that were originally classified correctly by the line would be misclassified once it sees the outliers.

- X Incorrect 0/2 Points
- - Ye