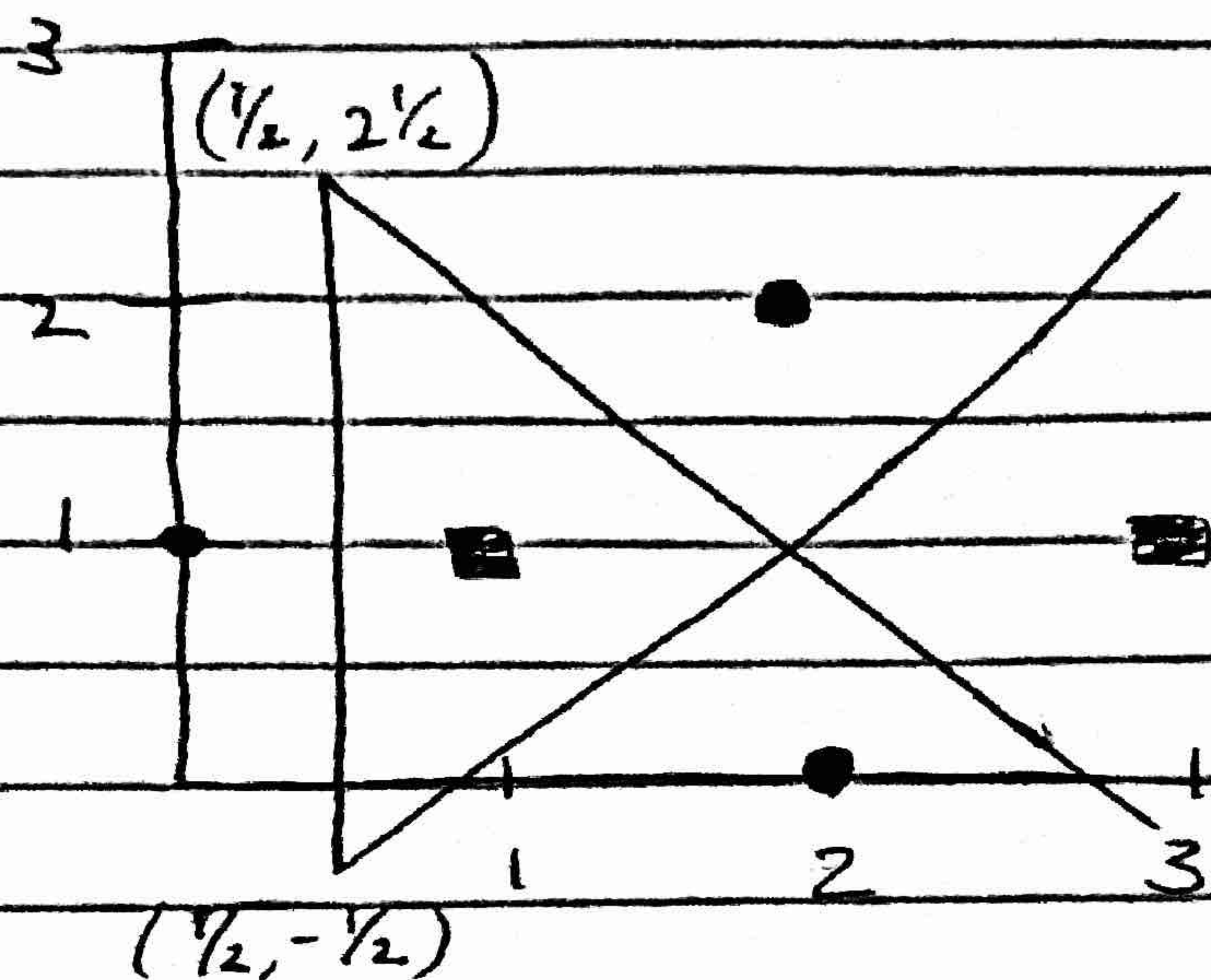


HW3 solutions

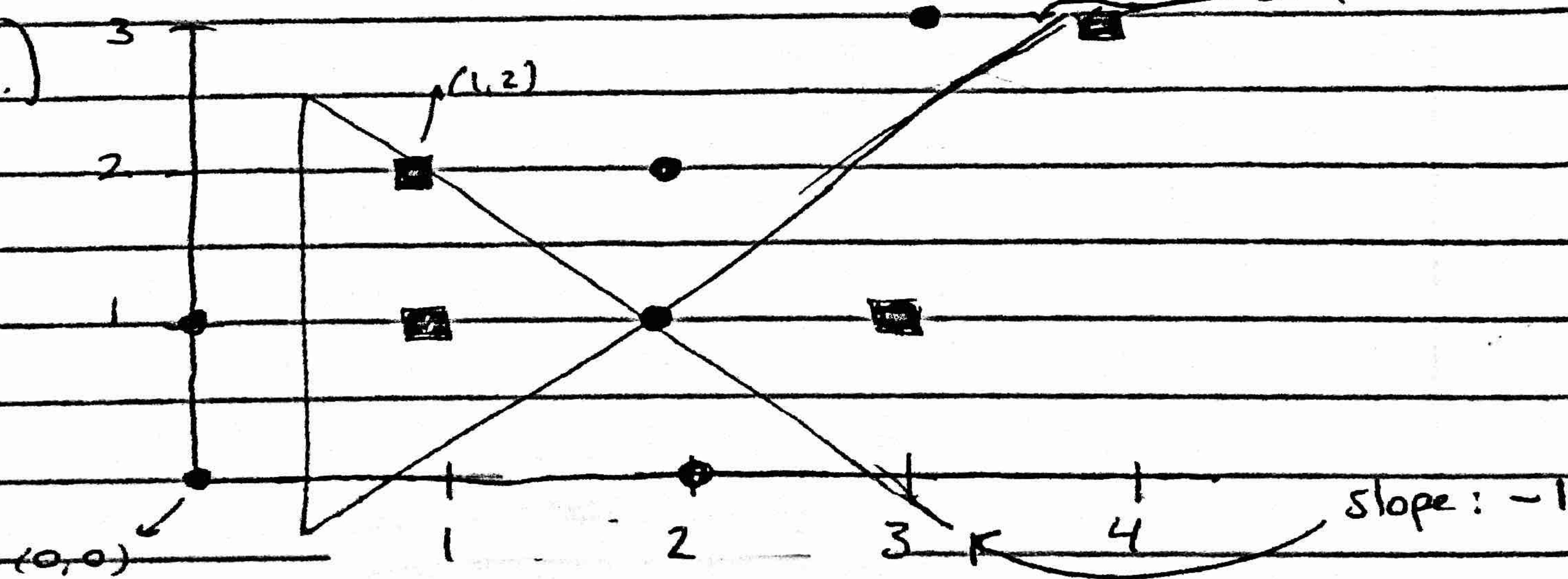
Problem 2

a.)



Bisect each pair of neighboring points (all neighboring points happen to be of different classes)

b.)



$(0, 0)$ - + class

$(1, 2)$ - - class (random guess)

$(2, 1)$ - + class (random guess)

$(3, 3)$ - + class

$(4, 3)$ - - class (random guess)

The classification of test points is done based on which side of the decision boundary the point lands in.

c.) Arbitrary guess