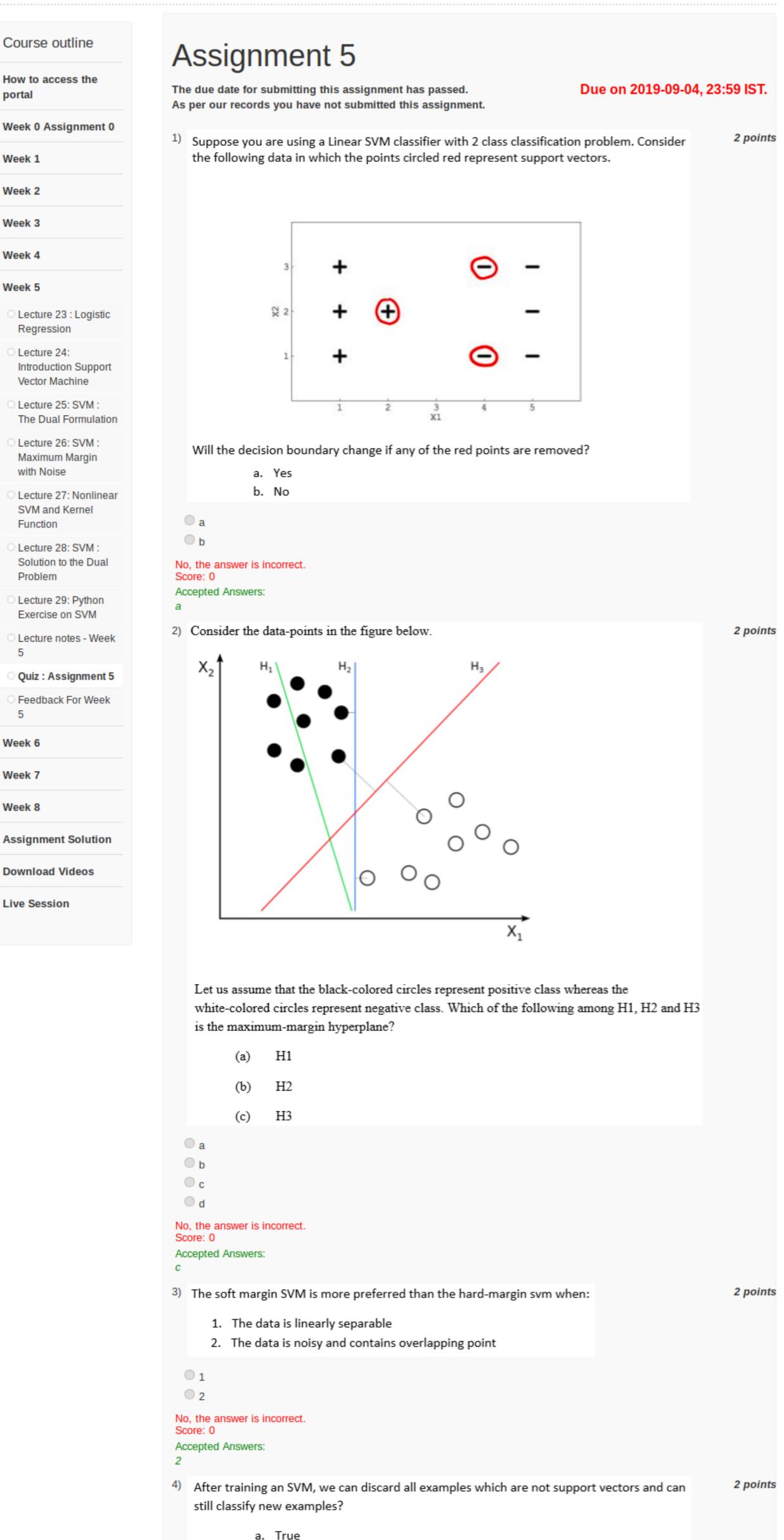
Unit 7 - Week 5



a
 b
 c
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 a
 Following Question 5, what would happen when you use very small C (C~0)?
 a. Data will be correctly classified
 b. Misclassification would happen
 c. None of these

5) Suppose you are building a SVM model on data X. The data X can be error prone which

a. We can still classify data correctly for given setting of hyper parameter C.
 b. We can not classify data correctly for given setting of hyper parameter C

What would happen when you use very large value of C (C->infinity)?

means that you should not trust any specific data point too much. Now think that you want to build a SVM model which has quadratic kernel function of polynomial degree 2 that uses

2 points

2 points

2 points

2 points

2 points

2 points

b. False

c. None of the above

Slack variable C as one of its hyper parameter.

a

(b

Score: 0

(a

b

0 c

Score: 0

 \bigcirc a

b

(c

No, the answer is incorrect.

Accepted Answers:

No, the answer is incorrect.

Accepted Answers:

7) If g(z) is the sigmoid function, then its derivative with respect to z may be written in term of g(z) as $a. \quad g(z)(g(z)-1) \\ b. \quad g(z)(1+g(z)) \\ c. \quad -g(z)(1+g(z)) \\ d. \quad g(z)(1-g(z))$

No, the answer is incorrect.
Score: 0

Accepted Answers:

d

8) In the linearly non-separable case, what effect does the C parameter have on the SVM mode.

a. it determines how many data points lie within the margin
b. it is a count of the number of data points which do not lie on their respective

c. it allows us to trade-off the number of misclassified points in the training data

side of the hyperplane

and the size of the margin

d. it counts the support vectors

separable. In this scenario

a
b
c
d
No, the answer is incorrect.
Score: 0
Accepted Answers:

9) Suppose that we use a RBF kernel with appropriate parameters to perform

classification on a particular two class data set where the data is not linearly

a. the decision boundary in the transformed feature space is non-linear

b. the decision boundary in the transformed feature space is linear

d. the decision boundary in the original feature space is non-linear

c. the decision boundary in the original feature space is linear

a
b
c
d
No, the answer is incorrect.
Score: 0
Accepted Answers:
b

b. 1 is False but 2 is True
c. Both are True
d. Both are False

a
b
c
d

10) Which of the following statements is/are true about kernel in SVM?

1. Kernel function map low dimensional data to high dimensional space

Accepted Answers: c

No, the answer is incorrect.

Score: 0

2. It's a similarity function

a. 1 is True but 2 is False