10/5/21, 9:44 AM Quiz: Quiz 5

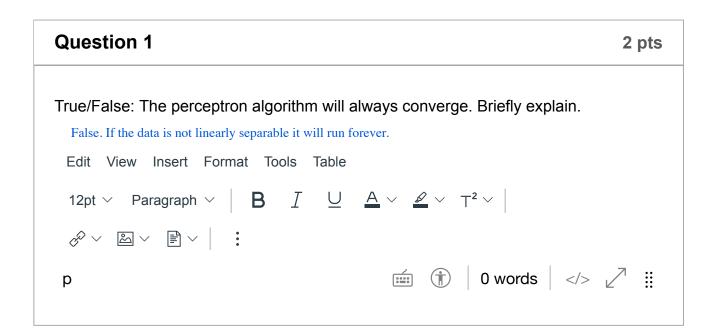
Quiz 5

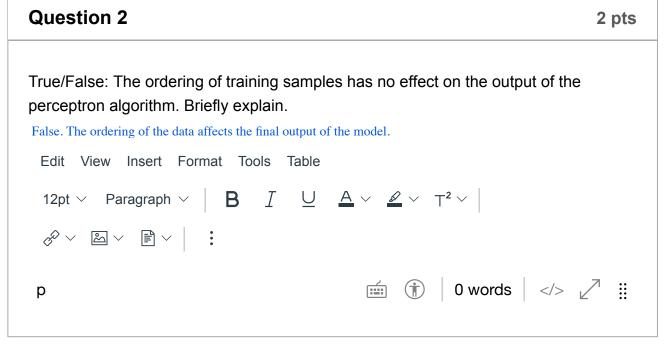
(!) This is a preview of the published version of the quiz

Started: Oct 5 at 9:44am

Quiz Instructions

You will have 30 minutes to complete this quiz once you start. You will have 2 attempts to deal with any potential technical difficulties you may have.





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> **Question 3** 2 pts

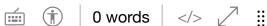
What is the function of b in the perceptron model (a = wx + b)?

B serves as a bias term, which we can think of as a threshold.

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Question 4 4 pts

Give the weights and bias for a perceptron that perfectly solves the logical AND problem. That is, it perfectly separates the binary data below (which represents the AND function). Note that I did not ask you to give the results of running the perceptron algorithm.

x_1	x_2	у
-1	-1	-1
-1	1	-1
1	-1	-1
1	1	1

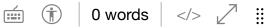
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12pt
$$\vee$$
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