## Multilayer perceptron Quiz, 4 questions

1
point
1. Choose the correct statements about MLP
We can train MLP with SGD
A hidden layer of MLP automatically learns new helpful features for the task
MLP can have only 1 hidden layer
The first hidden layer contains predictions for your task
MLP with a linear activation function is better than a linear model
1
point
2. Apply a chain rule to calculate $\frac{\partial a}{\partial x}$ where $a(x,y) = ain(xy) \cdot a^x$
Apply a chain rule to calculate $rac{\partial a}{\partial x}$ where $a(x,y)=sin(xy)\cdot c^x$ .
Here is an example of the syntax: sin(x*y)*exp(x), more info <u>here</u>
Preview
$ye^{x}\cos\left( xy ight) +e^{x}\sin\left( xy ight)$
sin(x*y)*exp(x) + cos(x*y)*y*exp(x)
1 point
3.
Choose the correct statements about backpropagation

It is an efficient way to apply a chain rule

4 questio	It is the way to train modern neural networks  VET PETCEPTION  ons  You can use non-differentiable loss to train your MLP
	It is done in one pass
1	
poin	t
4. What is graph?	s the time complexity of backpropagation algorithm w.r.t. number of edges $N$ in the computational
	O(N)
	O(log(N))
	O(N!)
	$O(N^2)$
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