Multilayer perceptron

Quiz, 4 questions

1 point
1. Choose the correct statements about MLP
The first hidden layer contains predictions for your task
MLP with a linear activation function is better than a linear model
MLP can have only 1 hidden layer
We can train MLP with SGD
A hidden layer of MLP automatically learns new helpful features for the task
2. Apply a chain rule to calculate $\frac{\partial a}{\partial x}$ where $a(x,y)=\sin(xy)\cdot e^x$. Here is an example of the syntax: $\sin(x^*y)^*\exp(x)$, more info here $ ye^x\cos(xy)+e^x\sin(xy) $ $\sin(x^*y)^*\exp(x)+y^*\cos(x^*y)^*\exp(x) $
1 point
3. Choose the correct statements about backpropagation
You can use non-differentiable loss to train your MLP
It is the way to train modern neural networks

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1 point	
4. What is the time comple	exity of backpropagation algorithm w.r.t. number of edges N in the computational
O(N)	
O(N!)	
$\bigcirc O(log(N))$	
$\bigcirc O(N^2)$	
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