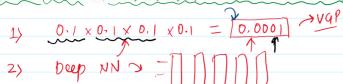
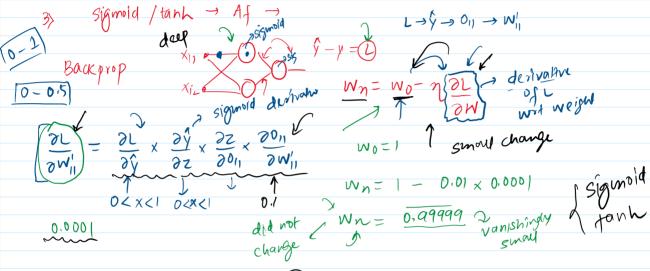
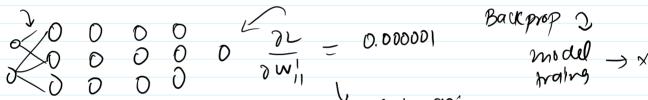
Thursday, April 7, 2022 7:45 AM

In machine learning, the vanishing gradient problem is encountered when training artificial neural networks with gradient-based learning methods and backpropagation. In such methods, during each iteration of training each of the neural network's weights receives an update proportional to the partial derivative of the error function with respect to the current weight. The problem is that in some cases, the gradient will be vanishingly small, effectively preventing the weight from changing its value. In the worst case, this may completely stop the neural network from further training. As one ex

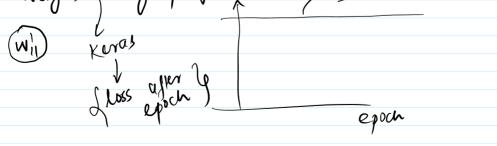






80's ,90's 2 main (0-100000 DL failed

How to recognize?



$$W_{\eta} = W_{0} - \eta \left( \frac{\partial L}{\partial w} \right)^{2} \qquad \left( \frac{W_{0} - w_{0}}{\eta} \right) =$$

