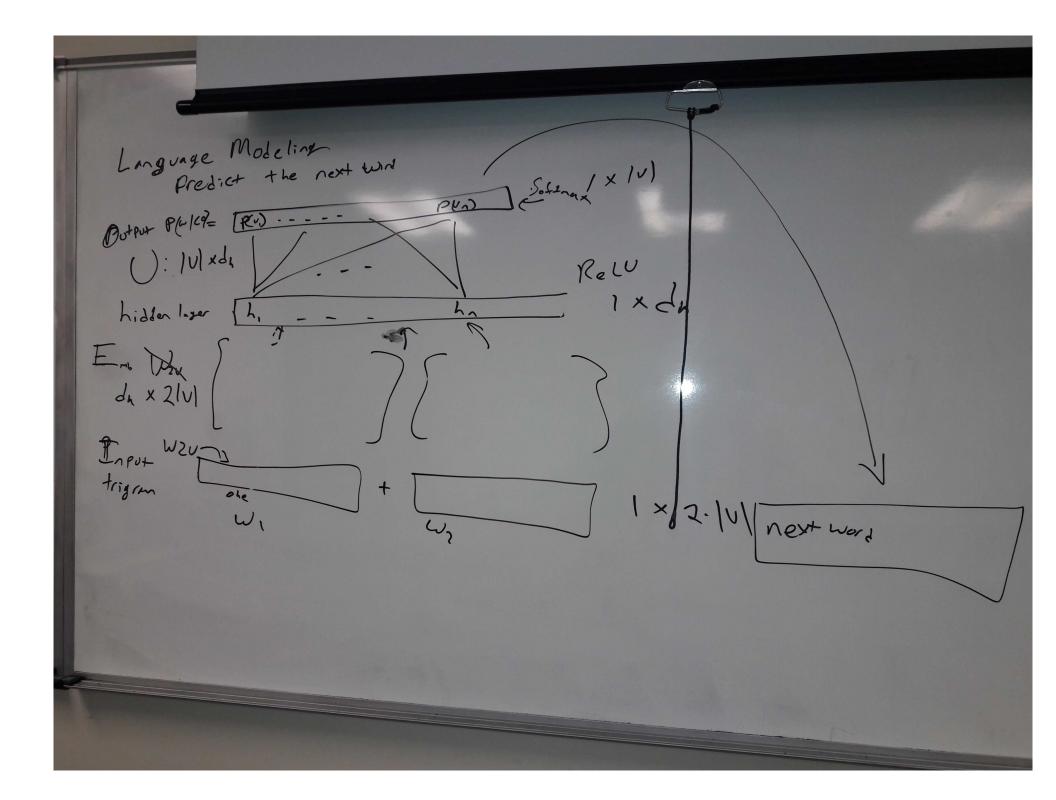
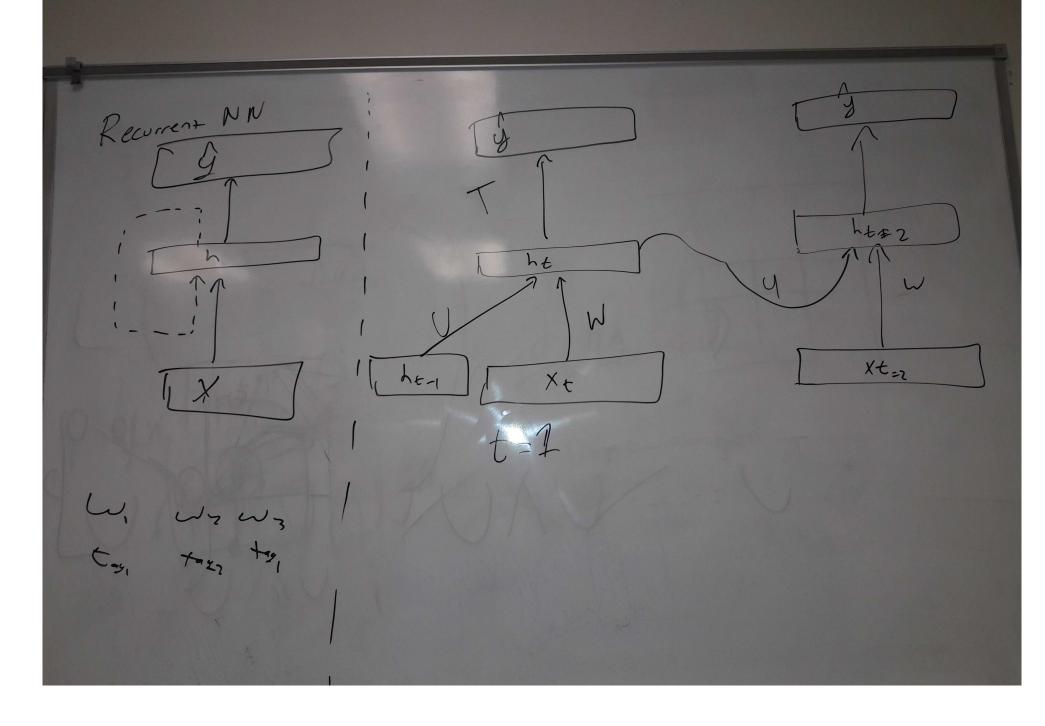
Liebor lugers Alt last lage Relu (Wn. X, + Wnxx+b) = Signoid (h)

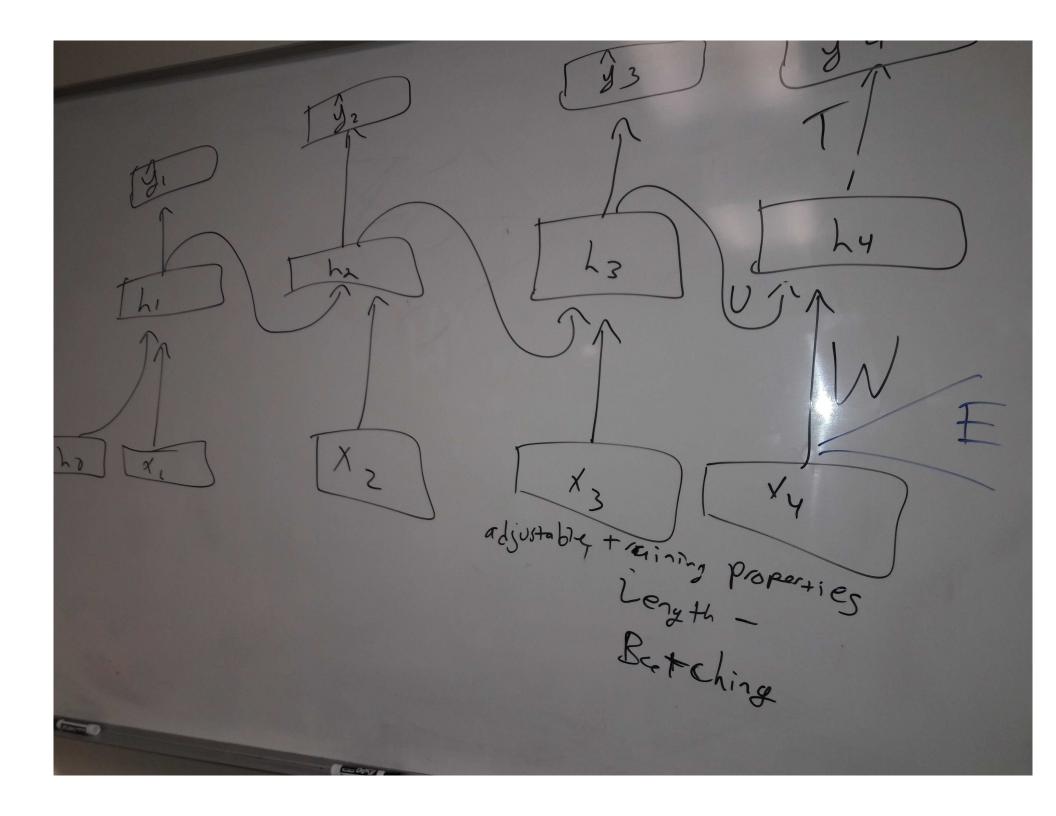
1

E



training Loss (ross-Entropy Lee( $y,\hat{y}$ ) =  $-\log \frac{e^{2i}}{\sum_{i=1}^{2} e^{2i}} \frac{\log e^{2i}}{\log e^{2i}}$ Pytorch / torch Crython / CLUN tensorflow





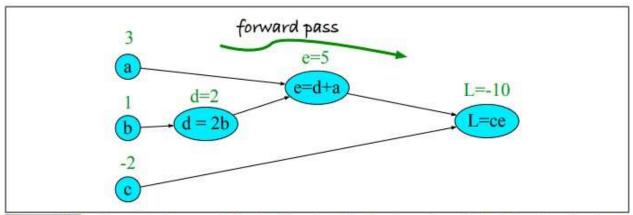
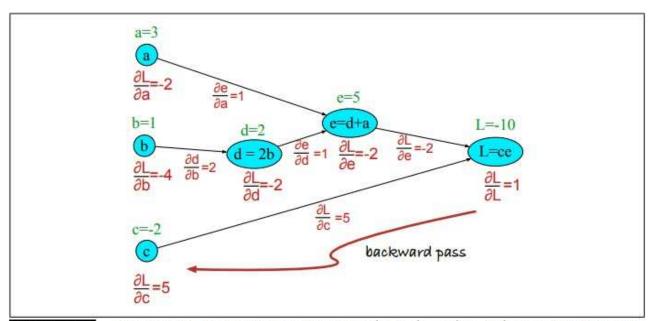


Figure 7.9 Computation graph for the function L(a,b,c) = c(a+2b), with values for input nodes a = 3, b = 1, c = -2, showing the forward pass computation of L.



**Figure 7.10** Computation graph for the function L(a,b,c) = c(a+2b), showing the backward pass computation of  $\frac{\partial L}{\partial a}$ ,  $\frac{\partial L}{\partial b}$ , and  $\frac{\partial L}{\partial c}$ .

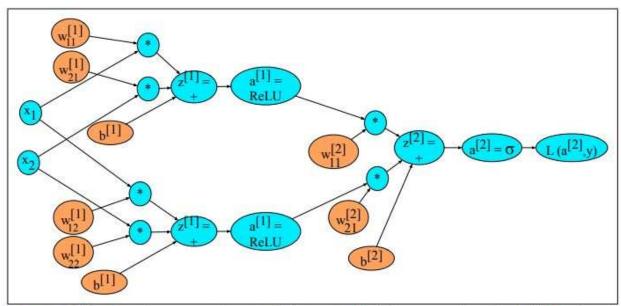


Figure 7.11 Sample computation graph for a simple 2-layer neural net (= 1 hidden layer) with two input dimensions and 2 hidden dimensions.