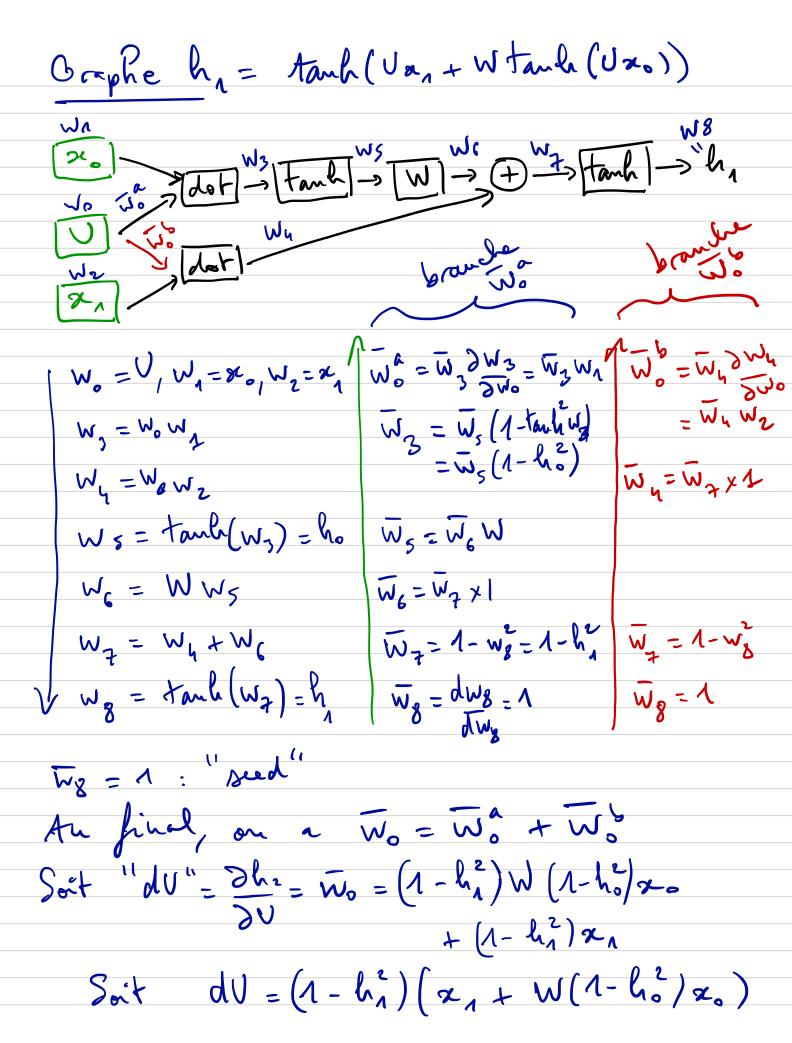
Correction TO3 h. (=0) -> ho | w 2) y = softmax (V tanh (Ja + Wh, 1) y = softmax (Vtanh (Uz + W (tanh (Uz, + Who))))
= softmax (Vtanh (Uz, + W (tanh (Uz, + W tanh (Uz))))) 3) [x] John W2 Tanh | W3 h.

To prophe de h. = tanh (Uxs) V M° = M5 X 2M5 = M5 MV Wo = U, WA = 260 Wo = 0, ...
W2 = W. W1
W3 = tanh(w2) | Wz = W3 DW3 = 1x(1-tanh(w2) J W3 = dw3 = 1 sud du = 3ho = w. = (1 - tanh (1x.)) x x.

=) | du = x. (1 - h.))



On a
$$\frac{\partial h_0}{\partial U} = \left(1 - h_0^2\right) \times 0$$

$$\frac{\partial h_1}{\partial U} = \left(1 - h_1^2\right) \left(x_1 + W\left(1 - h_0^2\right) \times 0\right)$$

$$= D$$

$$\frac{\partial h_2}{\partial U} = (1 - h_2^2) \left[x_2 + W \left(1 - h_1^2 \right) \left(x_1 + W \left(1 - h_2^2 \right) x_2 \right) \right]$$