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1. Consider the following simple dataset.

A		В	T
	1	0	1
	0	1	0

how your results in the form of a table as we did in class.

а	b	W(A-h)	W(B-h)	W(h-T)	h	t	Target t	E(t)	dW(h-t)	E(h)	dW(A-h)	dW(B-h)	С
Init		0.100000	0.100000	0.100000									0.30
1.000000	0.000000	0.100000	0.100000	0.100000	0.524979	0.513121	1.000000	0.12164	0.01916	0.00303	0.00091	0.00000	
Update W	eights	0.100910	0.100000	0.119157									
0.000000	1.000000	0.100910	0.100000	0.119157	0.524979	0.515634	0.000000	-0.12878	-0.02028	-0.00383	0.00000	-0.00115	
Update W	eights	0.100910	0.098852	0.098874									
1.000000	0.000000	0.100910	0.098852	0.098874	0.525206	0.512979	1.000000	0.12167	0.01917	0.00300	0.00090	0.00000	
Update W	eights	0.101810	0.098852	0.118045									
0.000000	1.000000	0.101810	0.098852	0.118045	0.524693	0.515479	0.000000	-0.12875	-0.02027	-0.00379	0.00000	-0.00114	
Update W	eights	0.101810	0.097715	0.097780									
1.000000	0.000000	0.101810	0.097715	0.097780	0.525431	0.512841	1.000000	0.12171	0.01918	0.00297	0.00089	0.00000	
Update W	eights	0.102700	0.097715	0.116965									
0.000000	1.000000	0.102700	0.097715	0.116965	0.524409	0.515330	0.000000	-0.12871	-0.02025	-0.00375	0.00000	-0.00113	

3. Assume that the units of a neural network are modified so they compute the squashing function tanh (instead of the sigmoid unction). What is the resulting backpropagation weight update rule for the output layer? (Note, $tanh'(x) = 1 - tanh^2(x)$).

$$\Delta W_{jk} = C * O_j * (T_k - O_k)(1 - \tanh^2(x))$$