PS_E &	Assignment 5.1.
	Given:
	75
37	$\omega_{\chi} = \begin{bmatrix} 3, -4 \end{bmatrix} \qquad b_{h} = 0 \qquad b_{y} = 10$
	$\omega_{h} = \begin{bmatrix} 4 & -5 \\ -3 & 2 \end{bmatrix} \qquad h_{o} = \begin{bmatrix} 0 & 0 \\ 0 & 3 \end{bmatrix}$
	2 - 15 29 3
	$w_{y} = \begin{bmatrix} -4 \\ 2 \end{bmatrix}$
	No. of RNN units = 2
	he = tanh (wx. xt + wn.ht-1 + bn)
	$h_1 = \tanh (1 \times [3 - 4] + 0 + 0)$
	= tanh = [0.99505 -0.99932]
	$h_2 = \tanh \left(2 \times \left[3 - 4\right] + \left[0.99505 - 0.99932\right] \left[4 - 5\right] + \left[-3 + 2\right]$
	= tanh ([6-8]+[6.97816 -6.97389])
	= tanh ([12.97816 -14.97389])
	= [0.99999 -1]



	3
$h_3 = \tanh \left(3 \times \left[3 - 4\right] + \right)$	[0.99999 -1] [4 -5] -3 2]
	(A) Max
= tanh ([9-12]+	6.99996 -6.99995
1 1 6 6 10 00001	-18.999957)
= tanh ([15,99996	10
= [1 -1]	al MMA Harris &
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gt = wy ht Tby	1) + (Pb x + b) =
2 12 ha thu	Alsh ve
= Wy. hz + by	
$= \begin{bmatrix} 1 & -1 \end{bmatrix} \begin{bmatrix} -4 \\ 2 \end{bmatrix} + 10$	and MANDERNA PORT
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= -6+10	Pole
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17-	Assignment 5.2
5 2/2	
gnes 10-)	
A	combedding layer.
7	vocab length × Required output dim
2	12020 × 6
2	72120
*	Simple RNN layer (first).
2	(Recurrent neights) + (no. of units × no. of features
	from embedding) + (backprapagation).
=	(64 x 64) + (64 x 6) + 64.
=	4544. MAT AN - PU =
4	Simple RNN layer (second)
=	(leg magnest weights) + (No. of units x no. of units of
	(Remount veignts) + (No. of units x no. of units of previous layer) + (backpropagation)
_	$(32 \times 32) + (32 \times 64) + 32$
7-	3104
	2101
40	(in 11 PNN lamp (High)
*	Simple RNN layer (third) (16 × 16) † (16 × 32) † 16
-	
	784
-40	N. a. Janes
×	Dense layer
	(No. of units x no. of units of pievious RNN layer)+
=	(backpropagation) (24 x 16) + 24
=	408

	# Parameters for sonce layer 1: 5 mm
*	Dense (output layer)
-	(No. of 018 units x no. of units of servious hidden
	Dense (output layer) [No. of 0/9 units x no. of units of pervious hidden layer) + (backperopagation) [6 x 24) +6
-	16 x 24) 76
7	150
	# Parameters for some layer 2:
450	Total terainable parameters 72120 + 4544 + 3104 + 784 + 408 + 150.
-	72120 + 4544 + 3104 + 784 + 408 + 150.
τ	81118.
	43999 =