$$\begin{array}{c} 1. \\ b_{h} = \begin{bmatrix} -0.5 \\ -1.5 \\ -2.5 \end{bmatrix} \quad b_{y} = -0.5 \quad V = \begin{bmatrix} 1 \\ -1 \\ 1 \end{bmatrix} \end{array}$$

W= [0 |0] http:// account for next timestep and 0 |0 |http:// account for next timestep and 10 |http:// ignore htt and htt.

(t) = (t+1) f(t+1) + ht) O(t) (1- tanh2 (C(t)))  $g^{(t)} = \overline{c^{(t)}} i^{(t)}$ 

Ott) = her tanh(ctl)

f(t) = (t-1)

itt) = Ctt) gtt)

(b) Wix = 5 ft o'(Wix Xt) + Wih h(t-1)) xtt)