$$C_1 \longrightarrow +ve$$

$$P(\text{sad} \mid +ve) = \frac{0 + 1}{10 + 30}$$

$$P(\text{word1} \mid +ve)$$

$$P(\text{word1} \mid -ve)$$

$$\uparrow\uparrow\uparrow P = \frac{tp}{tp + fp}$$

$$\uparrow\uparrow R = \frac{tp}{tp + fn} \downarrow\downarrow$$

$P(y=0|\neg x)$
$+ P(y=0|x) = 1$

$P(y=0|x) + P(y=1|x)$
$= 1$

$y = 1$

$P(y=0|x)$

$$X$$

$$P(y_1|X) = \frac{W_1}{} - bx \quad \overset{nf}{\longleftrightarrow}$$

$$P(y_2|X) = \frac{W_2}{}$$

$$P(y_3|X) = \frac{W_3}{}$$

$$\frac{W_1}{W_2} \quad W_3 \qquad k \times f$$

findall $r^{"""}([^ "]+)"""()$

$<s> \_ \_ \_ \_ \_ \cdot </s>$ $P[<s> | is]$

$<s>$ NLP $</s>$

$<s>$ The name of the course is the $</s>$

$P(course | nlp)$ $P(</s> | nlp) (is | nlp)$

$$h_t = f(w_1 x_t + w_2 h_{t-1} + b_2)$$

$$y_t = g(w_3 h_t + b_3)$$

$$y_t = w_3 h_t + b_3$$

$h_0 = 0$

y b_3

w_3

h w_2 b_2

w_1

x

$$y_t = h_t$$

$$w_3 = 1, \ b_3 = 0$$
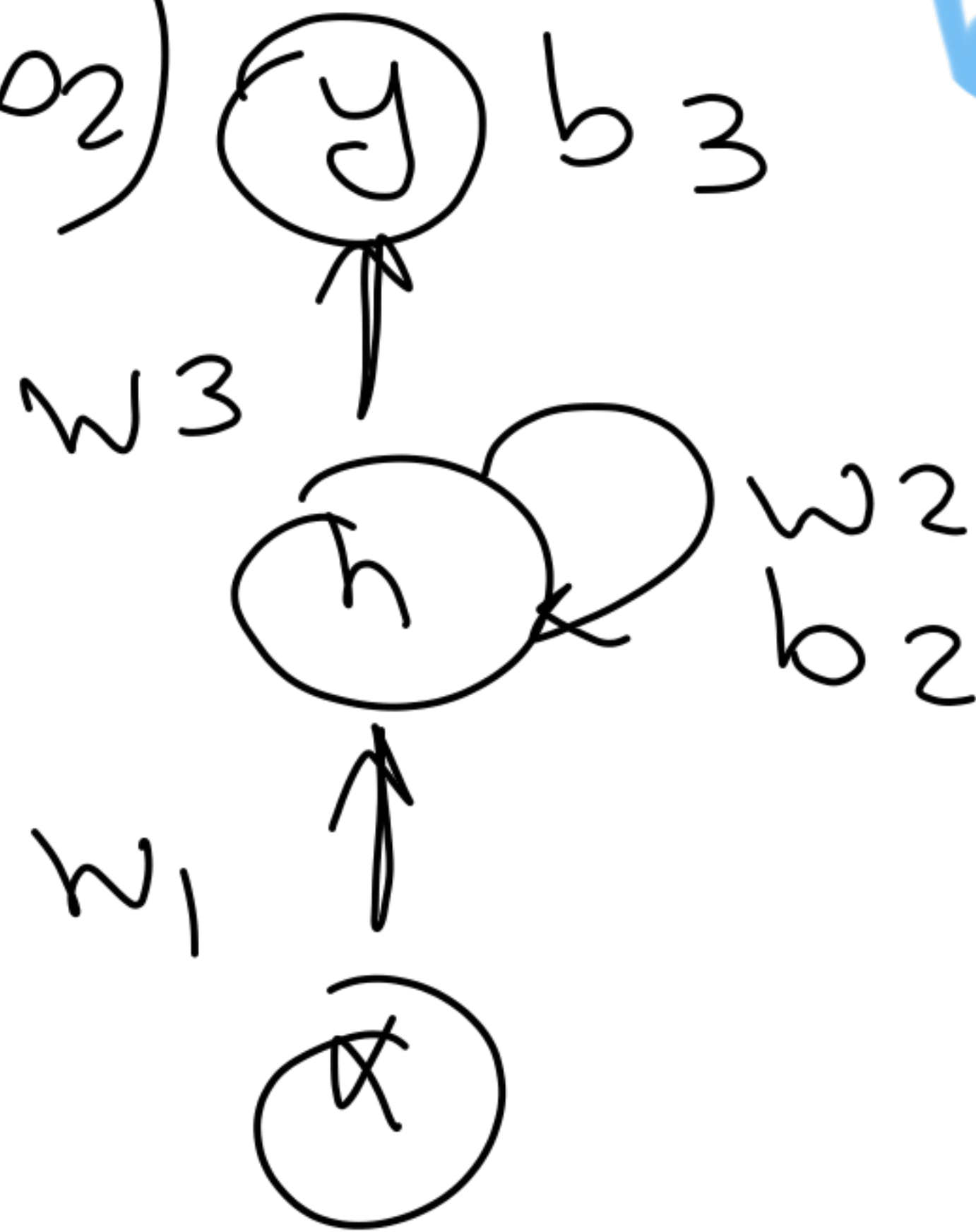
$$w_1 x_t + w_2 h_{t-1} + b_2 < 0 \rightarrow h_t = 0$$

$$w_1 x_t + w_2 h_{t-1} + b_2 > 0 \rightarrow h_t = 1$$

① $x_t = 0$ $h_{t-1} = 0 \rightarrow h_t = 0$ $\therefore b_2 < 0$

② $x_t = 1$ $h_{t-1} = 0 \rightarrow h_t = 1$

     $w_1 + b_2 > 0$

                    $w_1, w_2 > 0$

③ $x_t = 0, \; h_{t-1} = 1 \rightarrow h_t = 1$

     $w_2 + b_2 > 0$ $0 \rightarrow b_2$

④ $x_t = 1 \; h_{t-1} = 1 \rightarrow h_t = 1 \; w_1 + w_2 + b_2 > 0$