

Ch13 오차역전파 행렬곱화

2019년 5월 23일 목요일 오전 2:11

$$\text{error}_{\text{output}} \rightarrow \begin{pmatrix} e_1 \\ e_2 \end{pmatrix}$$

(가장 끝)

(정답)

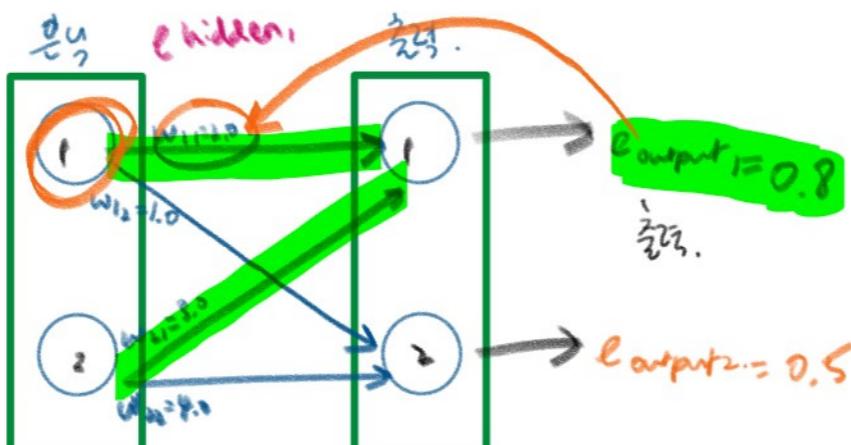
(예상)

(입력)

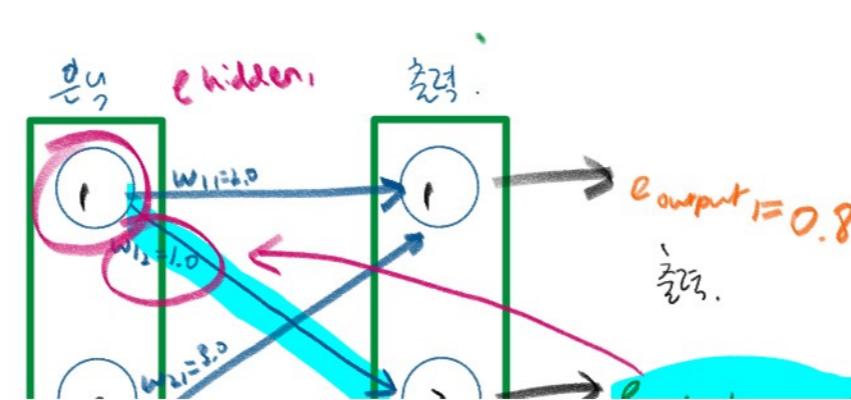
$$\text{error}_{\text{output}} = \begin{pmatrix} e_1 \\ e_2 \end{pmatrix}$$

$$\text{error}_{\text{hidden}} =$$

cf.



⊕



1 output 12 7/15 ...

$\frac{w_{01}}{w_{11} + w_{21}}$ $\frac{w_{02}}{w_{12} + w_{22}}$

w_{21} w_{22}

$w_{11} + w_{21}$ $w_{12} + w_{22}$

2 x 2 \times 1

12 7/15 ...

$e_{\text{hidden}1} = 0.8 \cdot \frac{2.0}{2.0 + 3.0} + 0.5 \cdot \frac{1.0}{1.0 + 4.0}$

= 0.32 + 0.10

= 0.42

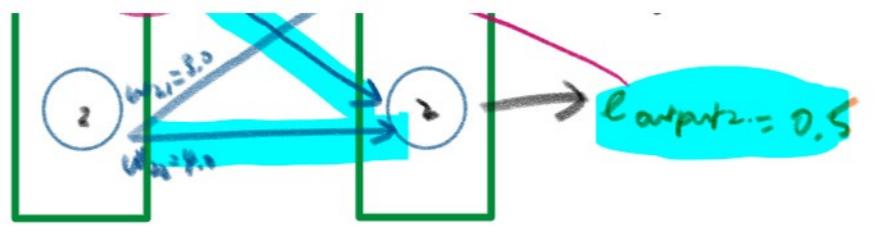
1 -> 12 7/15 ...

↳ 12 7/15 ...

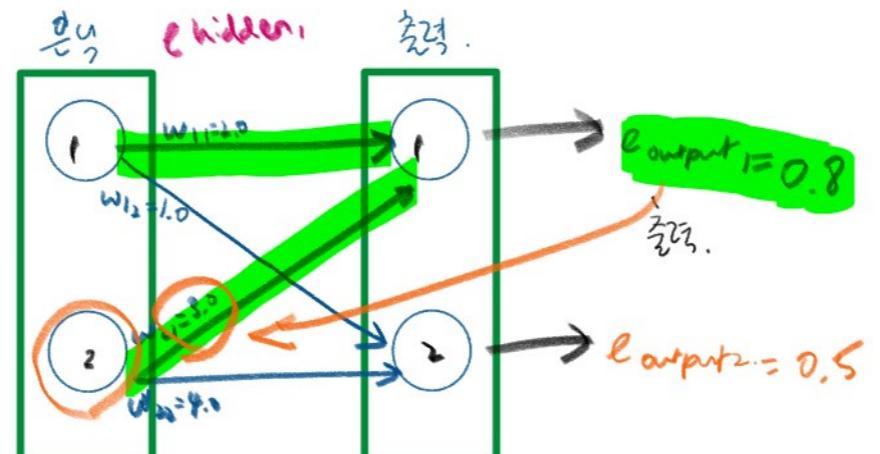
Output,
)
)

21
22
ZEM

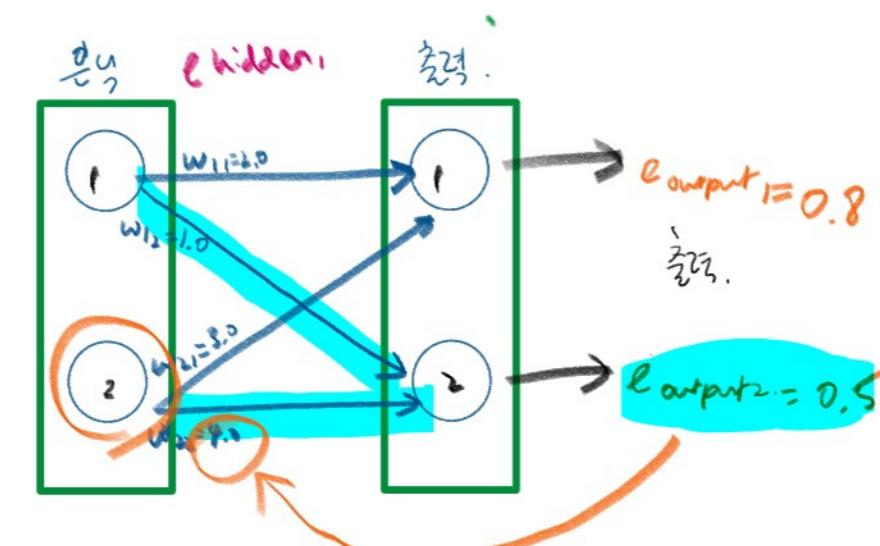
702 7



총역 ①, ② 학습시킬 때. ①²



$$e_{\text{hidden}} = \frac{0.8 - 0.5}{2.0 + 3.0} = \frac{0.3}{5.0} = 0.06$$

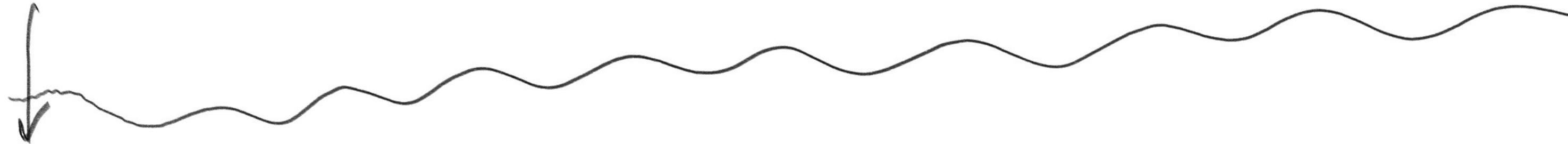


$$= 0.48 + 0.40 \\ = 0.78$$

총역 ①, ② 학습시킬 때. ②

2-3?

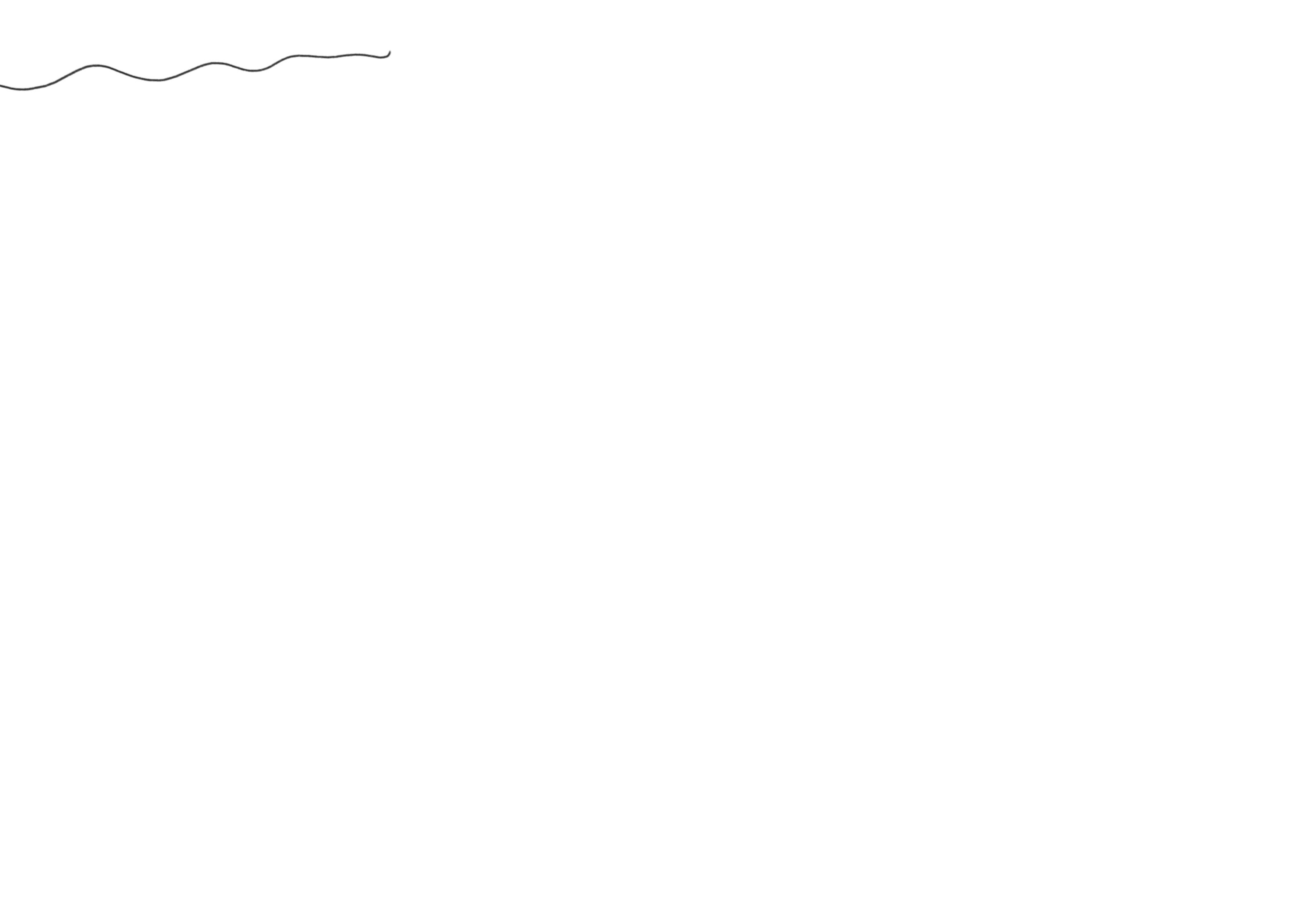
2-3?



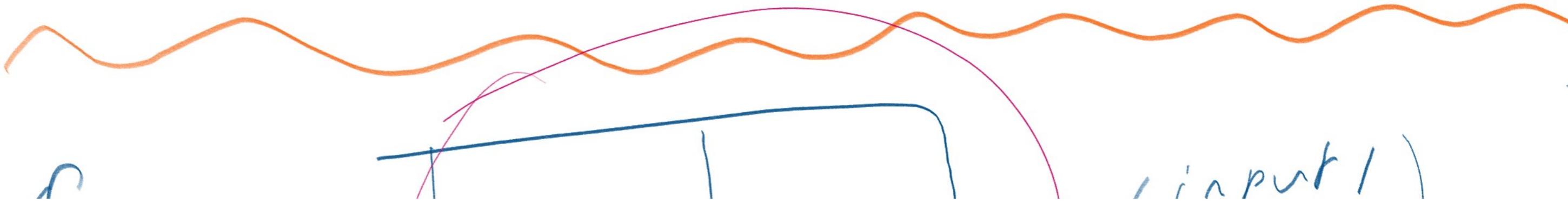
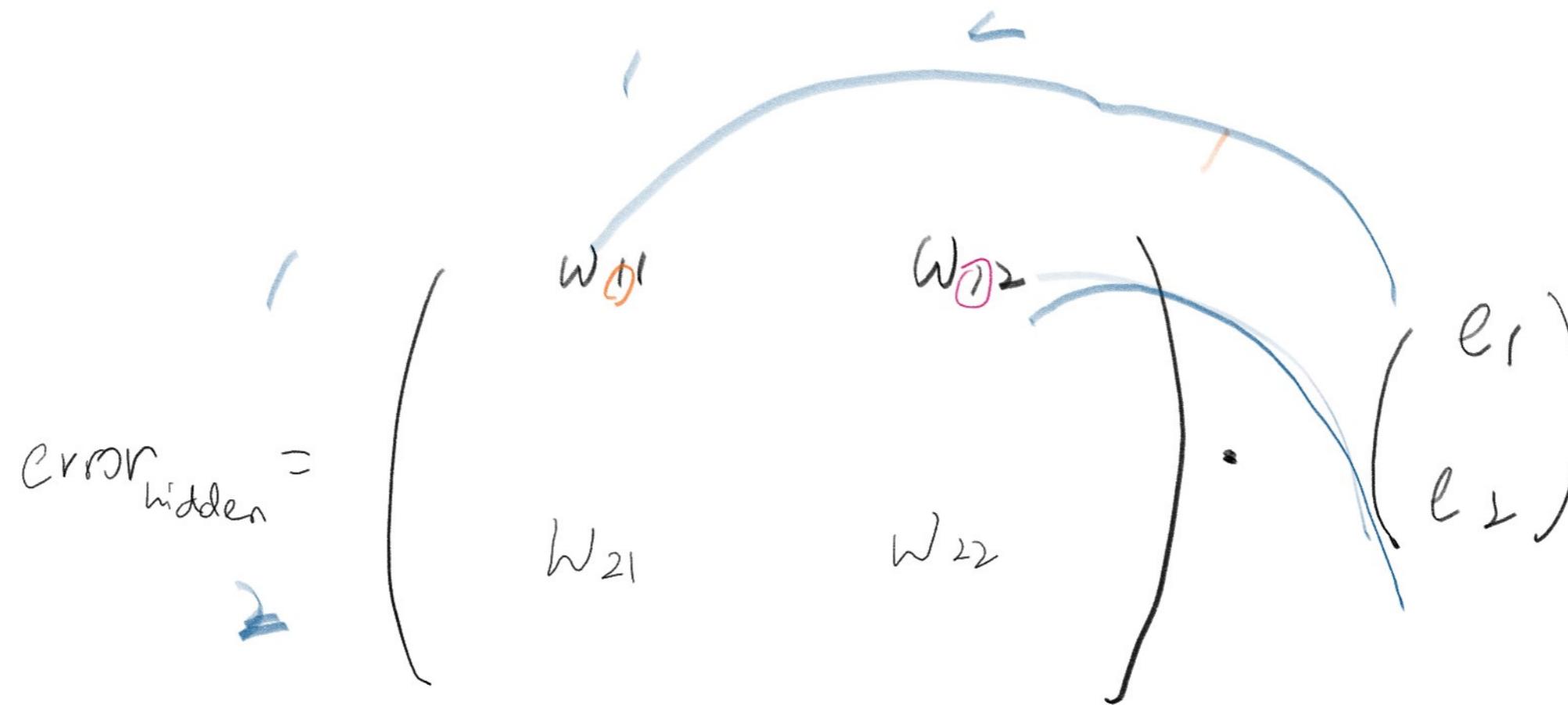
자연스러워

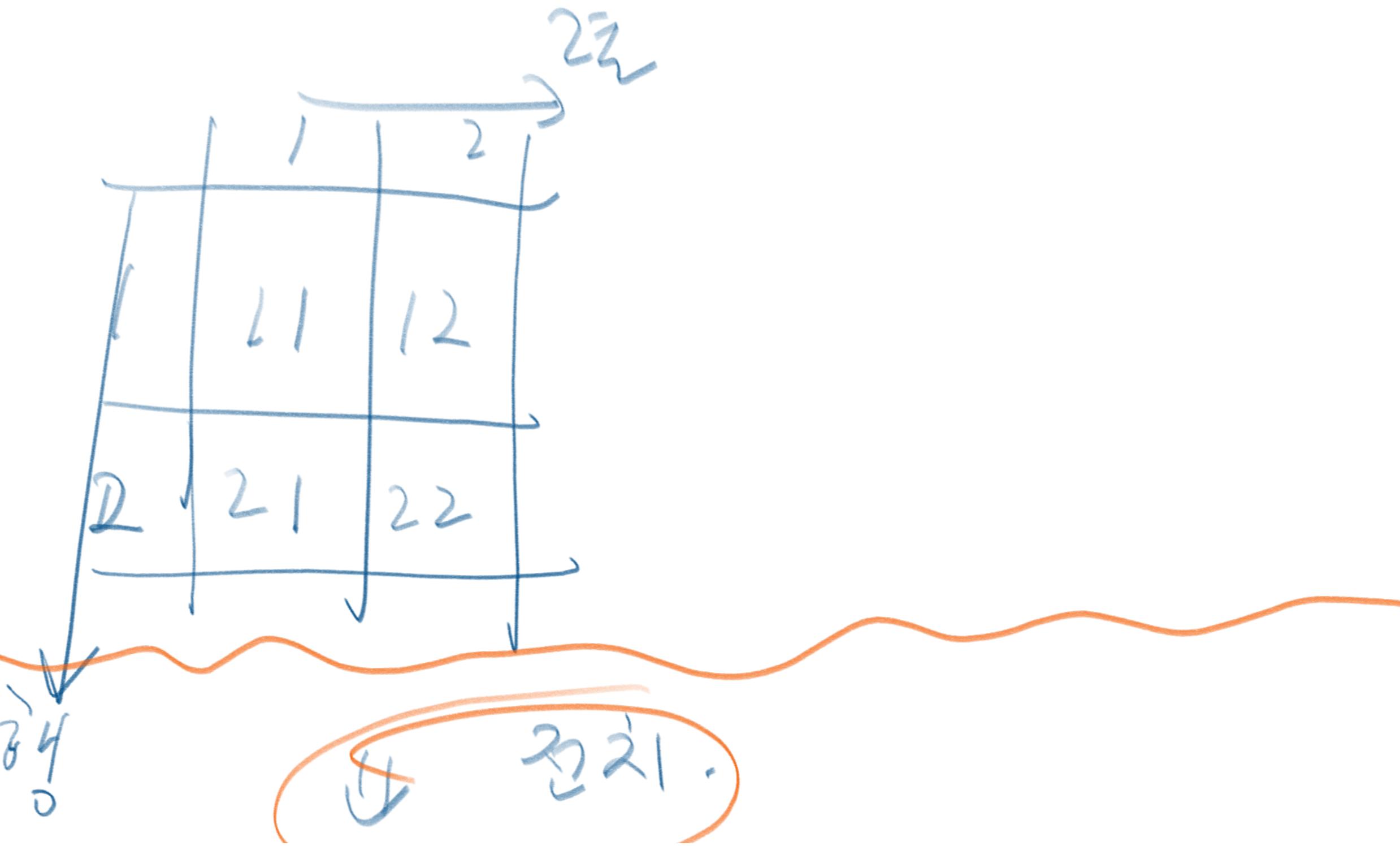
$$\text{error}_{\text{hidden}} = \begin{pmatrix} \frac{w_{01}}{w_{11} + w_{21}} & \frac{w_{02}}{w_{12} + w_{22}} \\ \frac{w_{21}}{w_{11} + w_{21}} & \frac{w_{22}}{w_{12} + w_{22}} \end{pmatrix} \cdot \begin{pmatrix} e_1 \\ e_2 \end{pmatrix}$$

제2계수 인자 : $\mu_w \rightarrow k_n$.

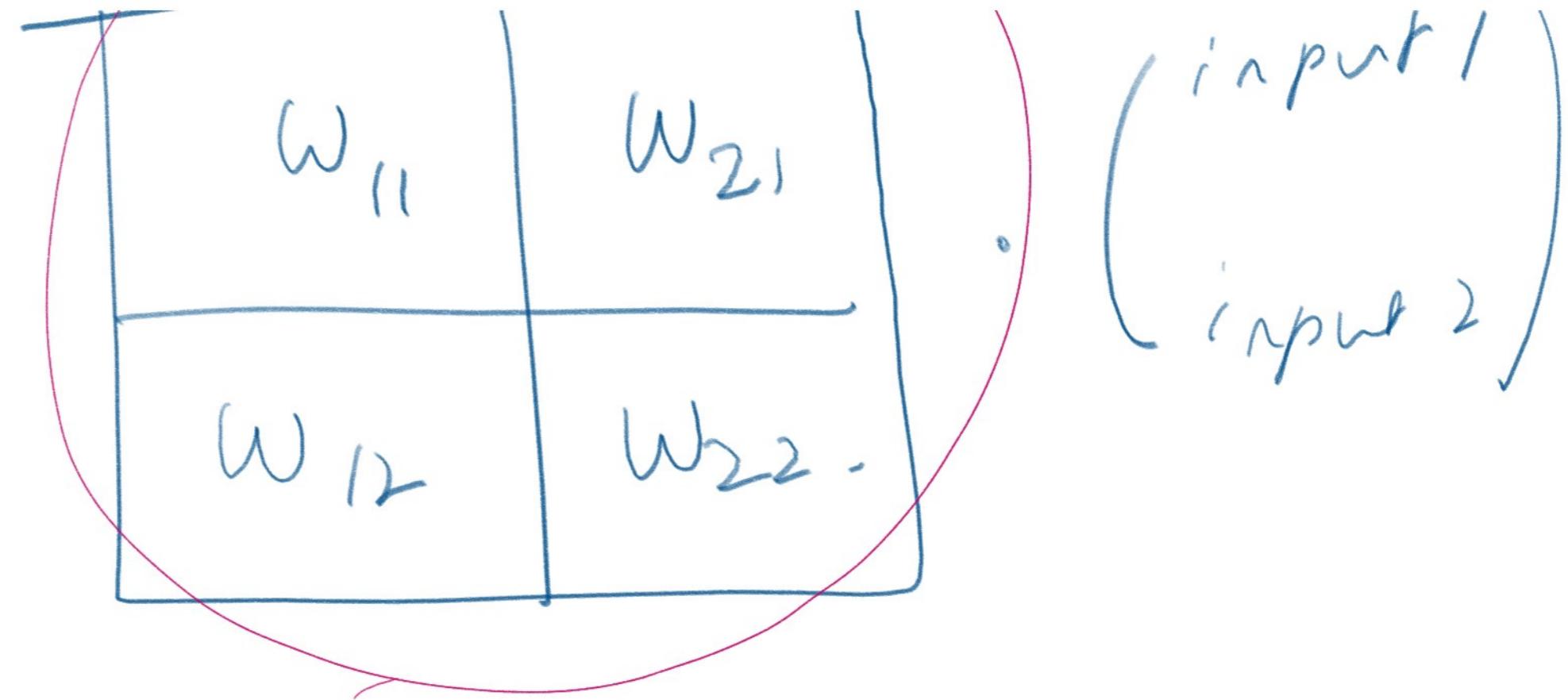


정류화 인자 : 흡수 가능.





f.
ch8.

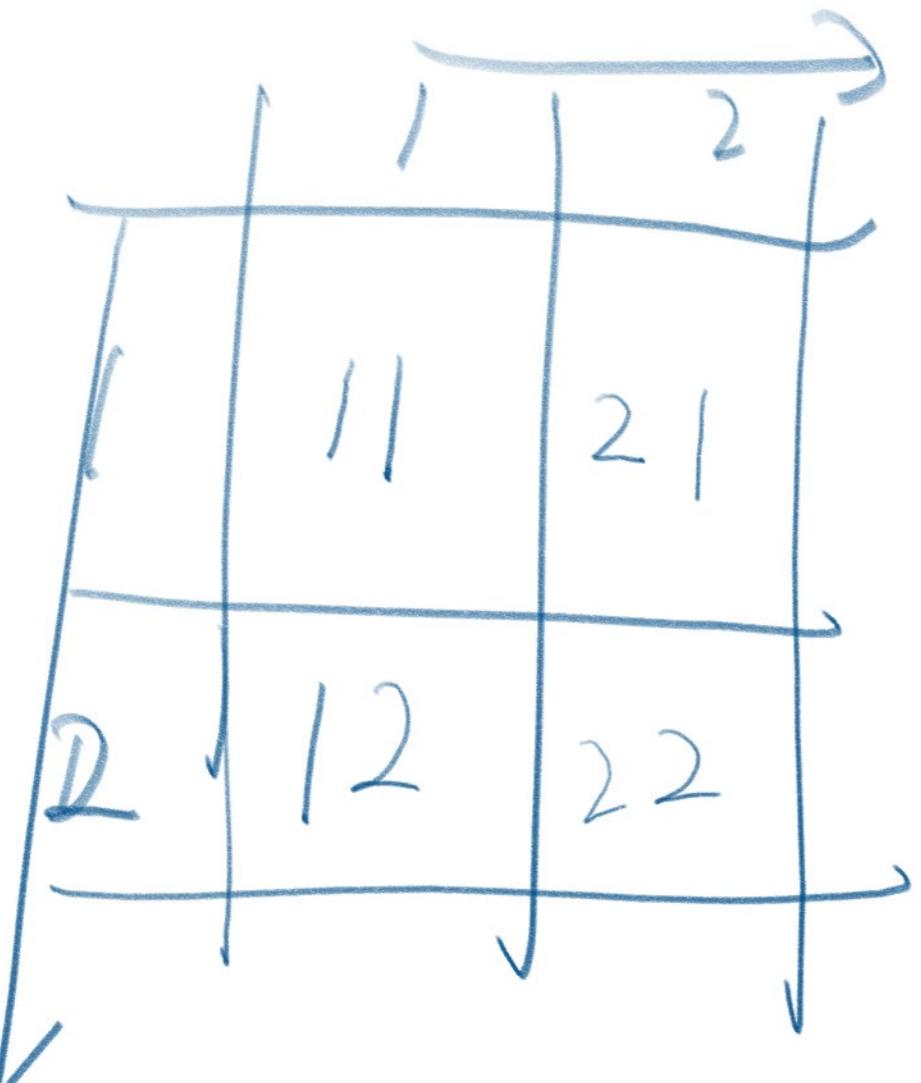


존치함수 만
→

다음이 가능해질.

0
U -

\vec{v}_B

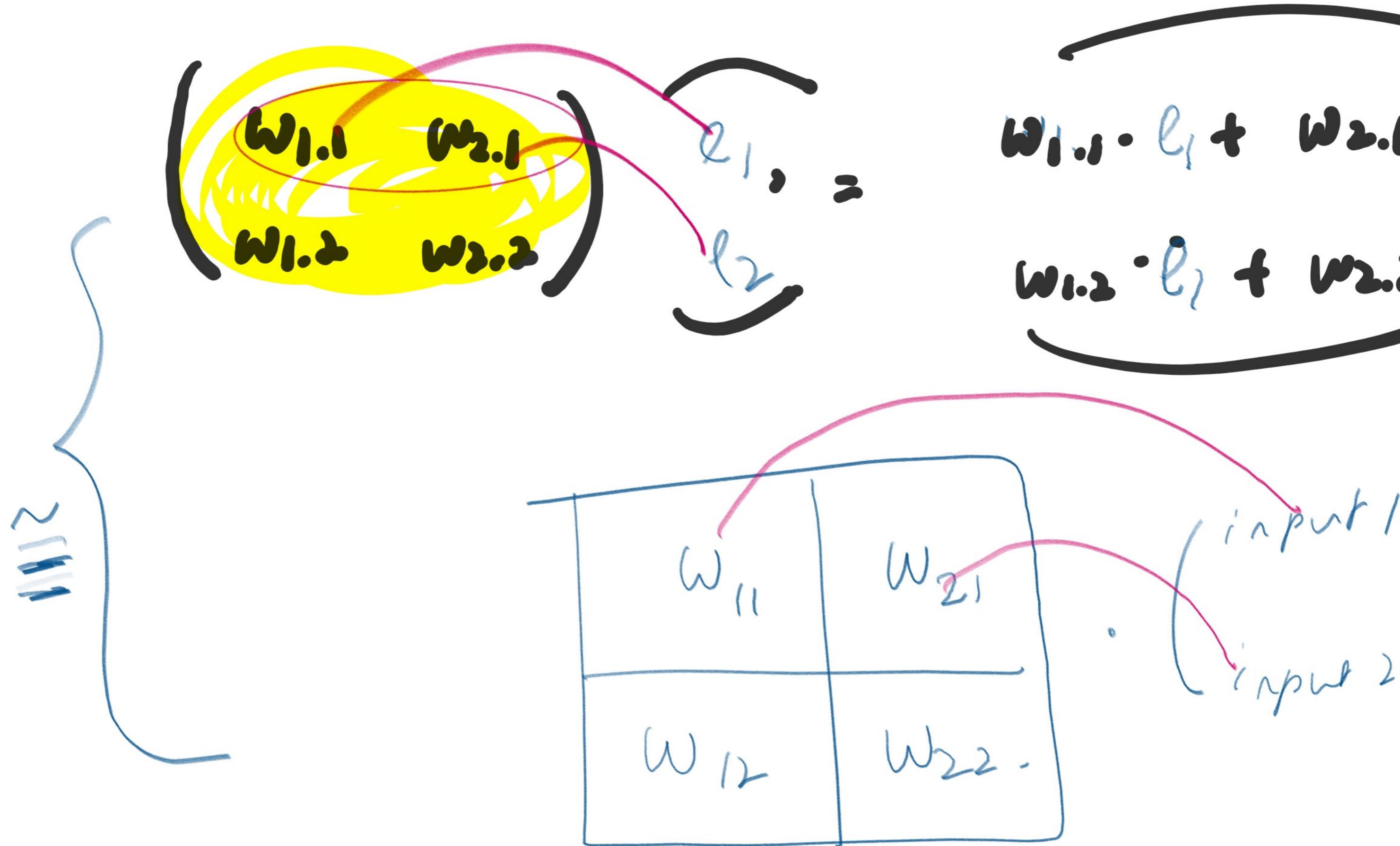


v_2

a a

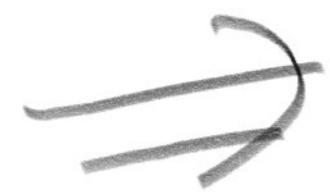
1/1

• error function



error_{hidden} =

W^T hidden



• $\ell 11^{\text{th}}$ output
n-output

$\therefore \sqrt{0.45} \text{ (loq)}$

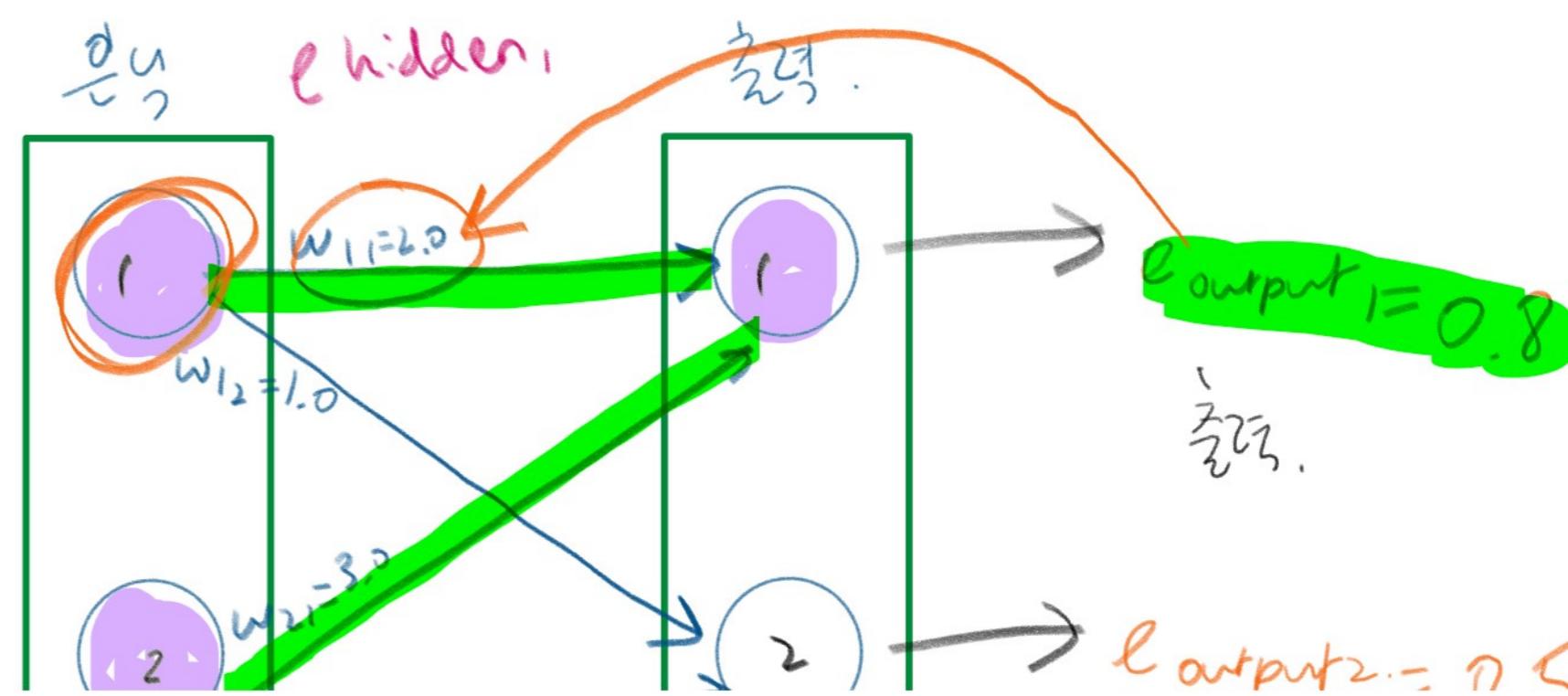
결과: 522m \rightarrow 532m 계획선지

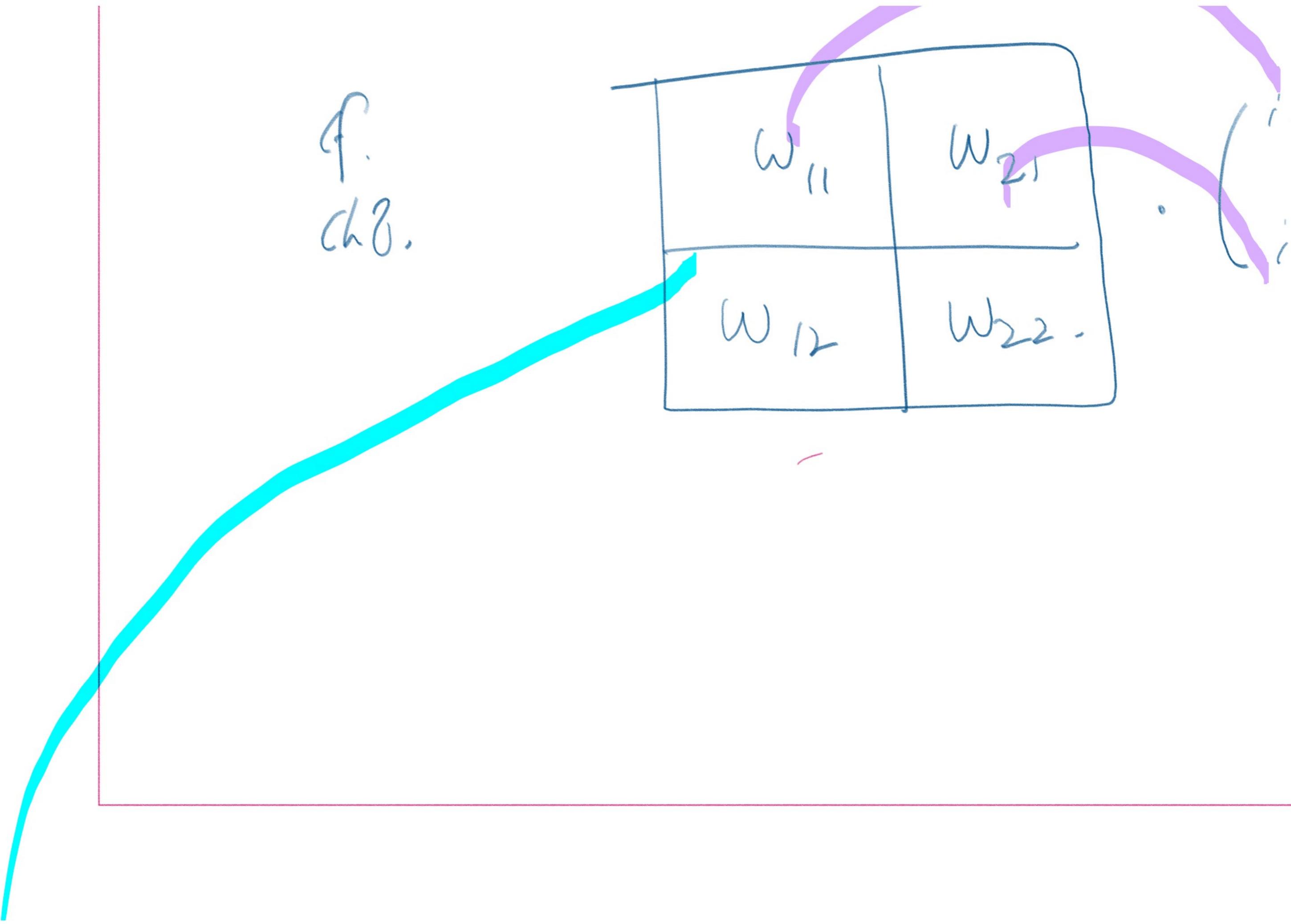
I. 522m

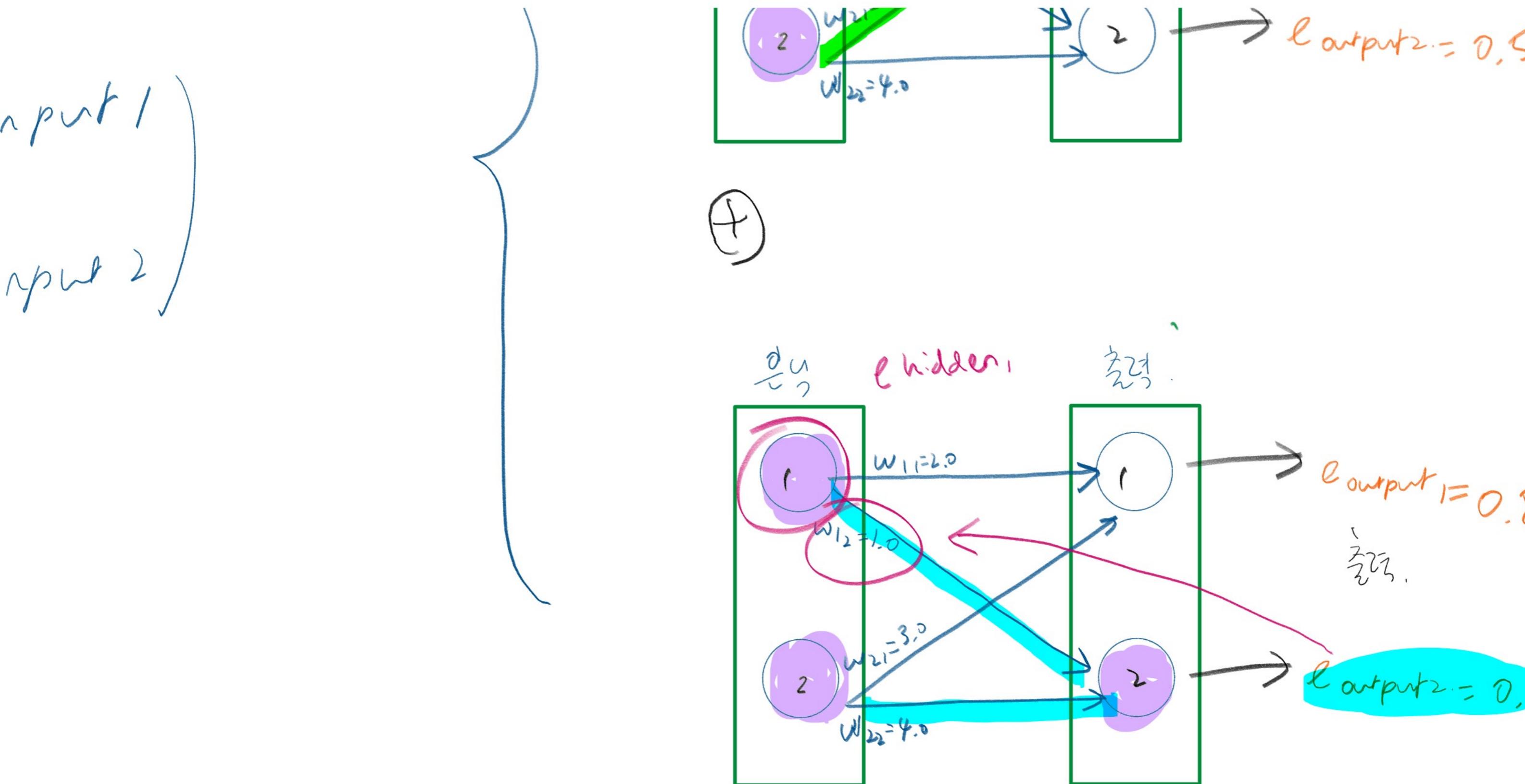
Solve for Output

2

21 풀이.









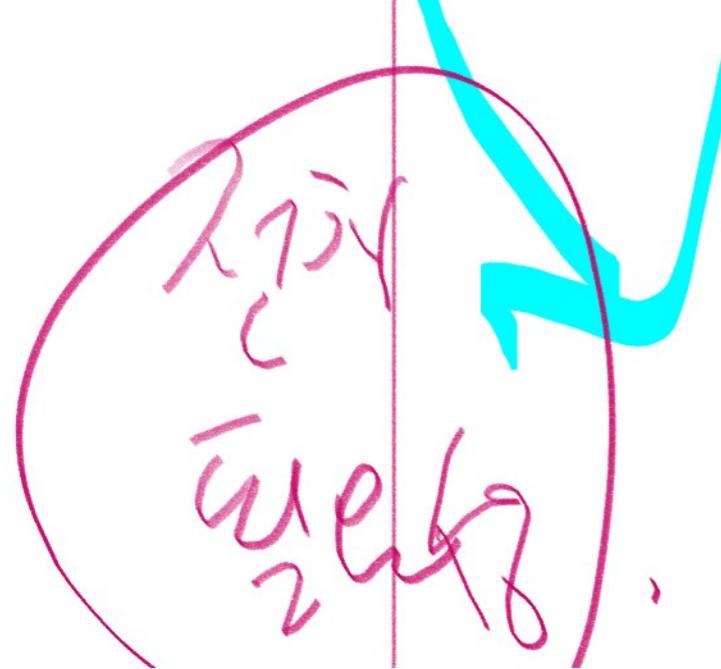


전자 \rightarrow 물질 전자수

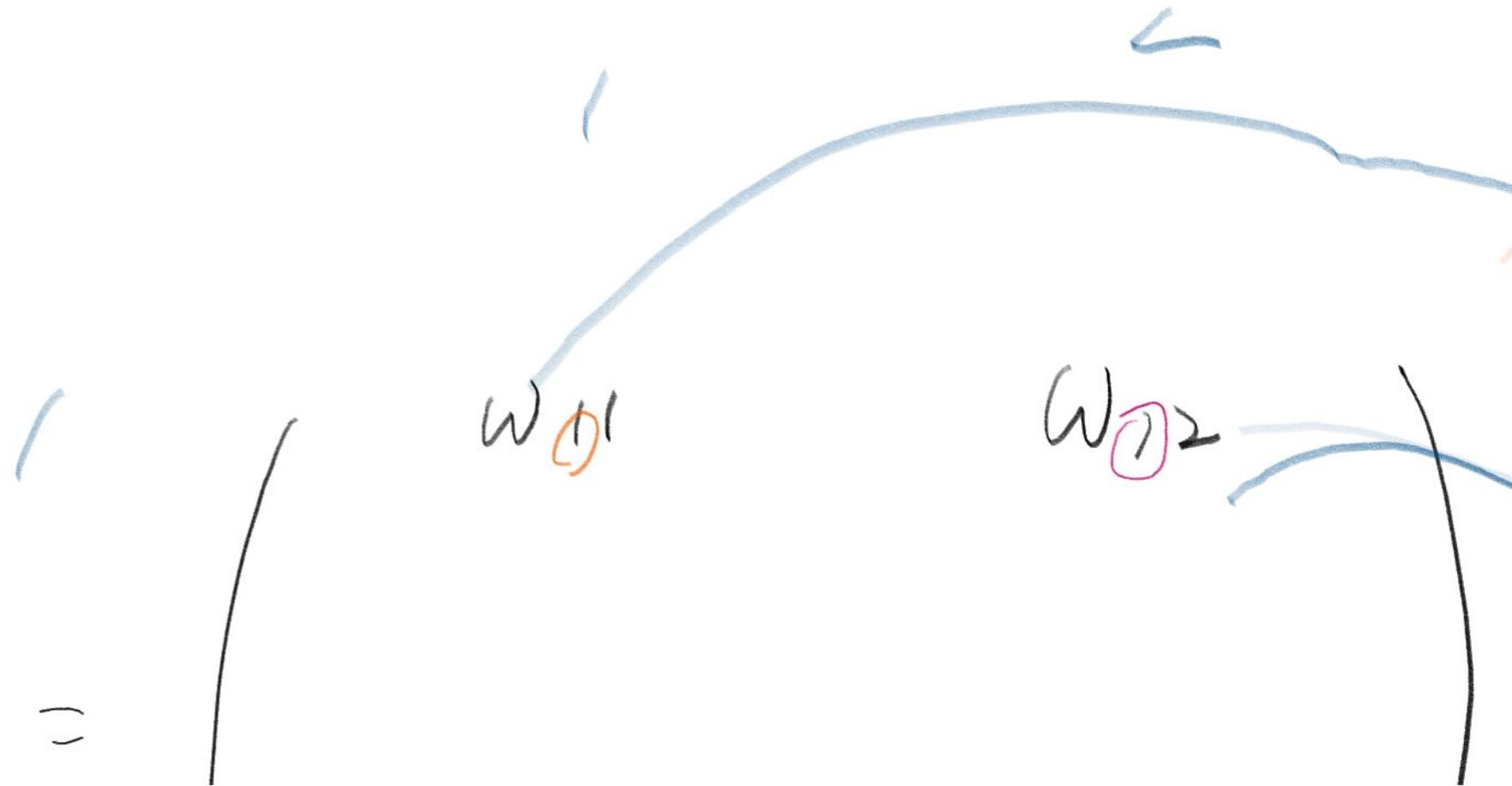
262
262
262

I. 물질.

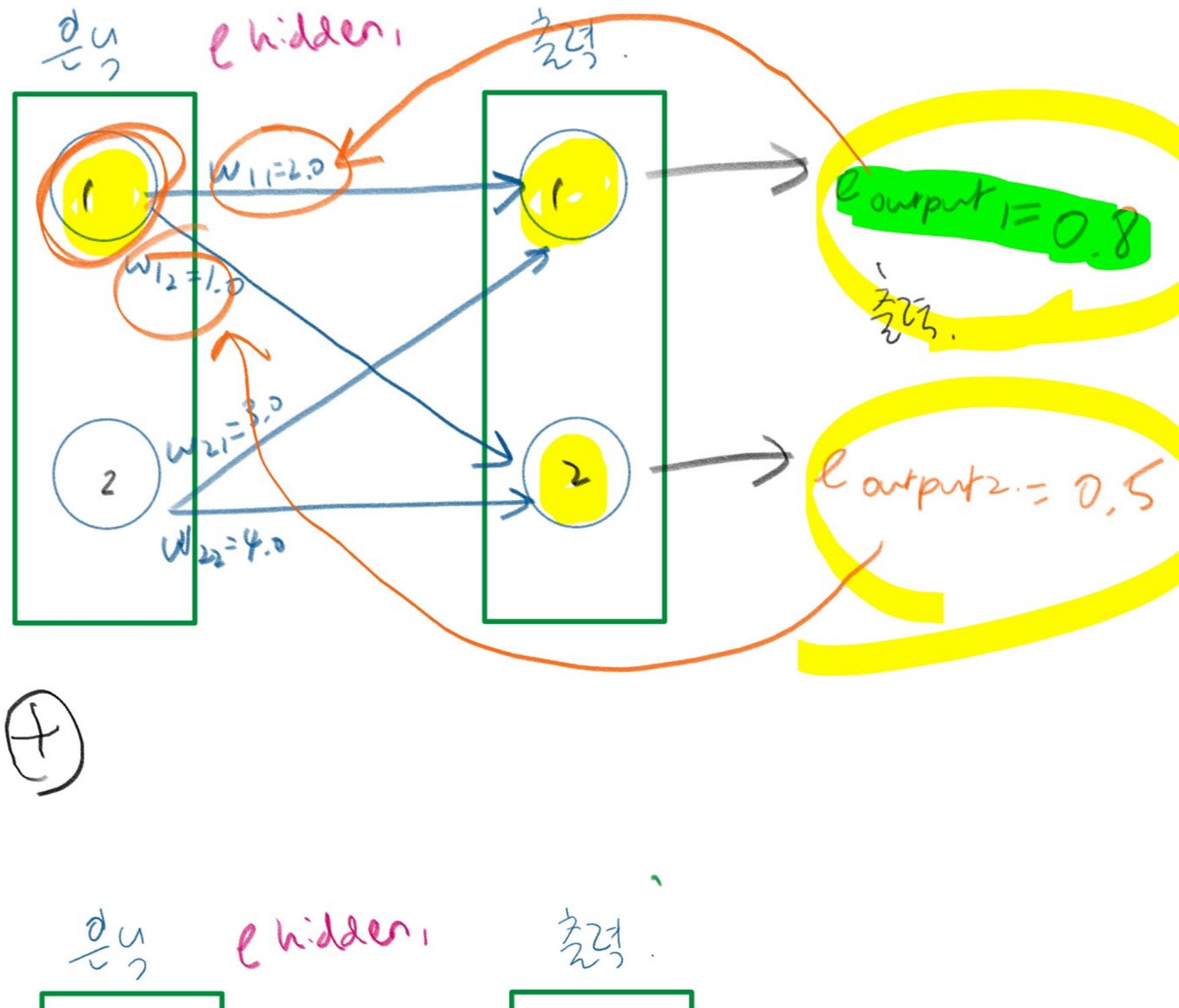
Solve for e_{Wlden}

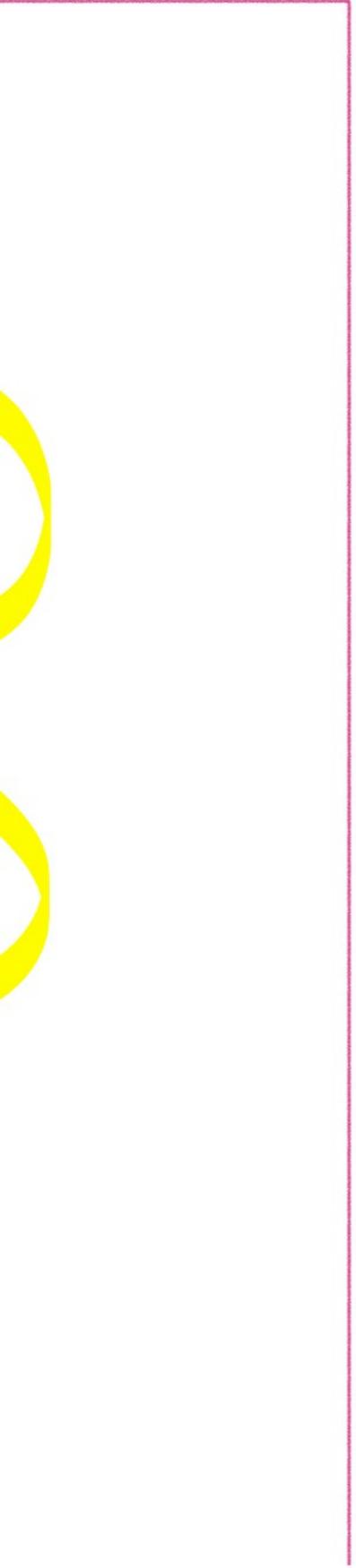
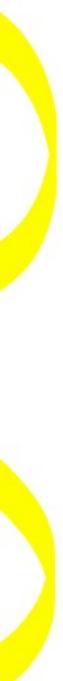


$$\text{error}_{\text{L.L.}} =$$



21. 템플.





27/01/

error_{hidden} =

2

w_{21}

w_{22}

=

$w_{11} \cdot e_1 +$

$w_{21} \cdot e_1 +$

