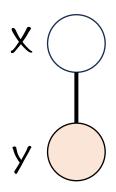
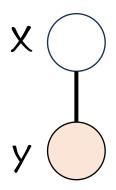
$$y = [W|b] \cdot [X|1] = WX+b$$

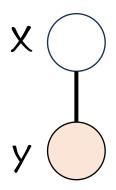


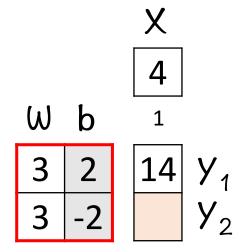
$$y = [W|b] \cdot [X|1] = WX+b$$

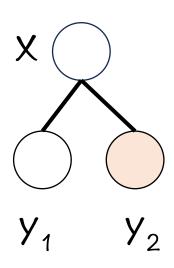


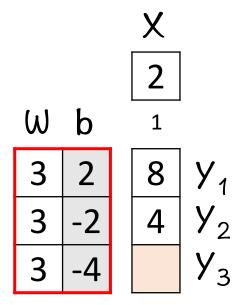
Exercise 3

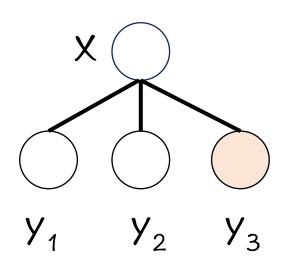
$$y = [W|b] \cdot [X|1] = WX+b$$



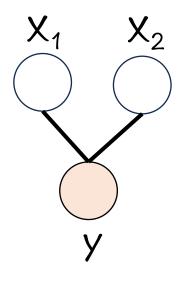




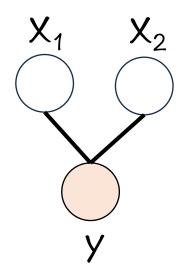


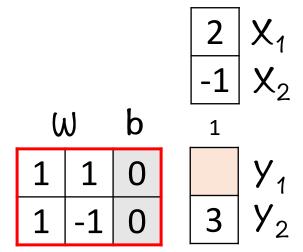


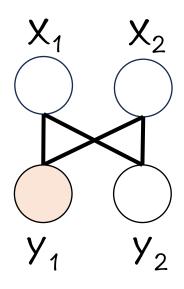
Exercise 6

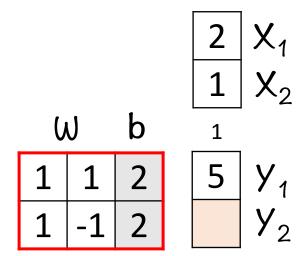


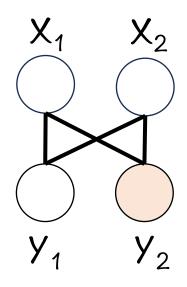
$$\begin{bmatrix} 2 & X_1 \\ 3 & X_2 \\ W & b & 1 \\ \hline 2 & 1 & 2 & Y \end{bmatrix}$$



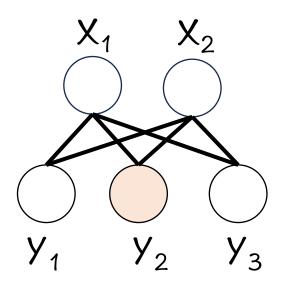




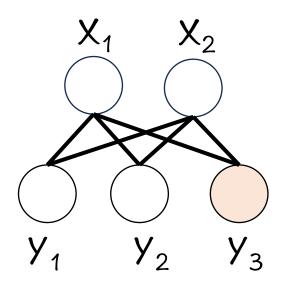




| | | | 3 | X_1 |
|---|----|---|---|-----------------------|
| | | | 2 | X_2 |
| | J | b | 1 | |
| 1 | 1 | 0 | 5 | У ₁ |
| 0 | 1 | 0 | | y ₂ |
| 1 | -1 | 0 | 1 | y ₃ |



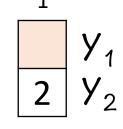
| | | | 4 | X_1 |
|----|----|---|----|-----------------------|
| | | | 7 | X_2 |
| | J | b | 1 | |
| 1 | 1 | 0 | 11 | У ₁ |
| 1 | -1 | 0 | -3 | y ₂ |
| -1 | 1 | 0 | | y ₃ |

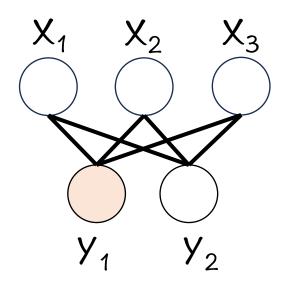


Exercise 12

| 1 | X_1 |
|----|-------|
| -2 | X_2 |
| 3 | X_3 |
| | |

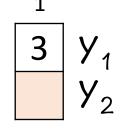
Wb1 -1 1 01 1 1 0

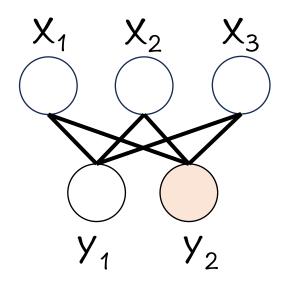




| 3 | X_1 |
|---|-------|
| 1 | X_2 |
| 2 | X_3 |
| | |

| | W | | b |
|---|---|---|----|
| 1 | 1 | 0 | -1 |
| 1 | 0 | 1 | -1 |



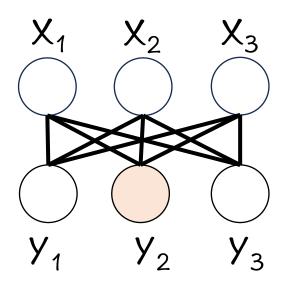


Exercise 14

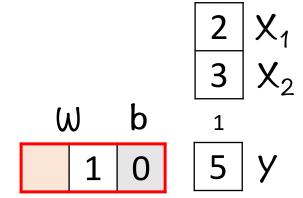
| 3 | X_1 |
|---|-------|
| 1 | X_2 |
| 2 | X_3 |
| | • |

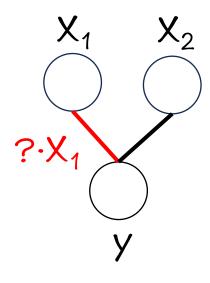
| W | | | b |
|---|---|---|---|
| 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 1 | 0 |

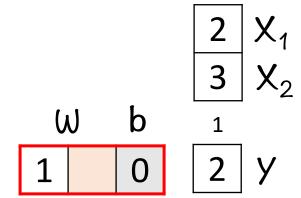
| 4 | У1 |
|---|-----------------------|
| | y ₂ |
| 5 | y ₃ |

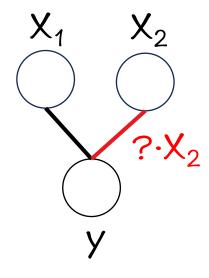


Exercise 15

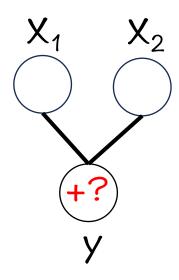


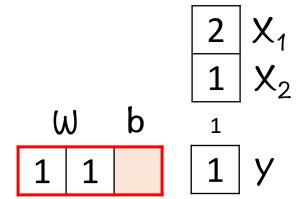


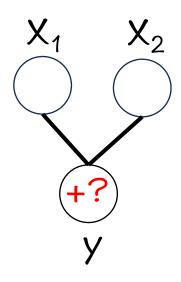


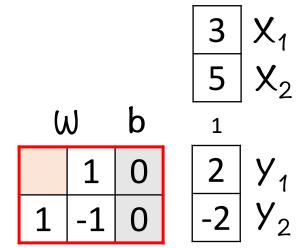


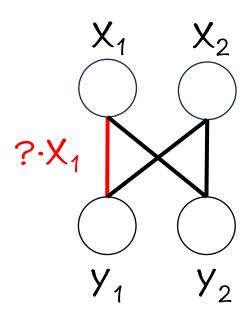
$$\begin{array}{c|ccccc}
 & 2 & X_1 \\
\hline
 & 1 & X_2 \\
 & W & b & 1 \\
\hline
 & 1 & 1 & 5 & Y
\end{array}$$

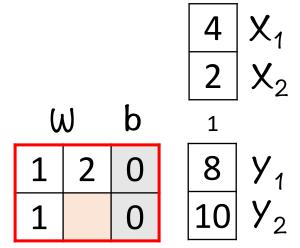


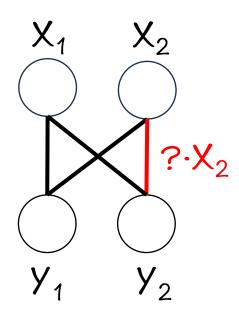


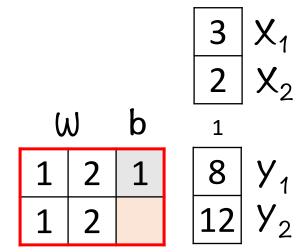


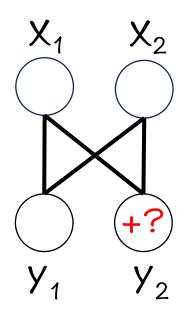


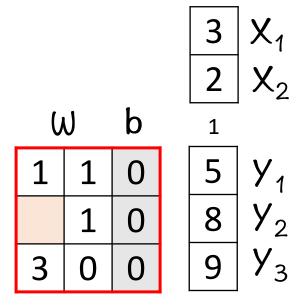


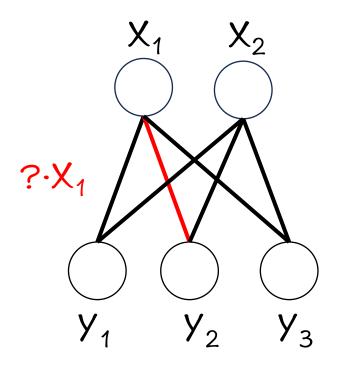


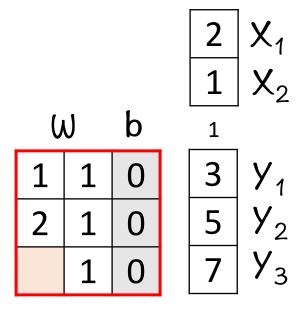


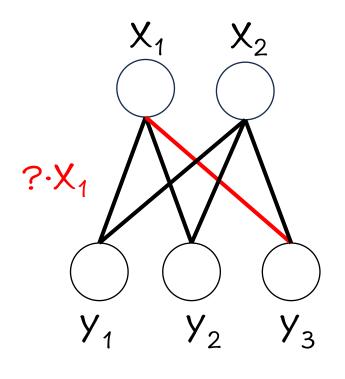










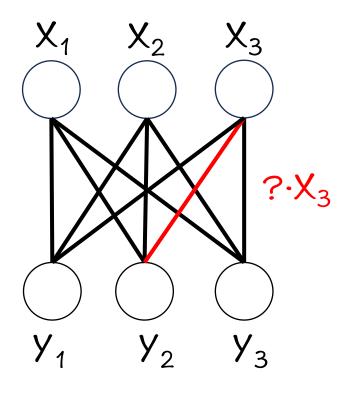




| 2 | X_1 |
|---|-------|
| 1 | X_2 |
| 2 | X_3 |

| W | | | b |
|---|---|---|---|
| 1 | 1 | 0 | 0 |
| 1 | 1 | | 0 |
| 1 | 1 | 1 | 0 |

| 3 | У1 |
|---|-----------------------|
| 1 | y ₂ |
| 5 | y ₃ |



Exercise 25

| 2 | X_1 |
|---|-------|
| 5 | X_2 |
| 1 | X_3 |

| | W | | b |
|---|---|---|----|
| 1 | 1 | 0 | 0 |
| 1 | 1 | 0 | -2 |
| 1 | 1 | 0 | |

| 7 | Y ₁ |
|---|-----------------------|
| 5 | y ₂ |
| 3 | y ₃ |

