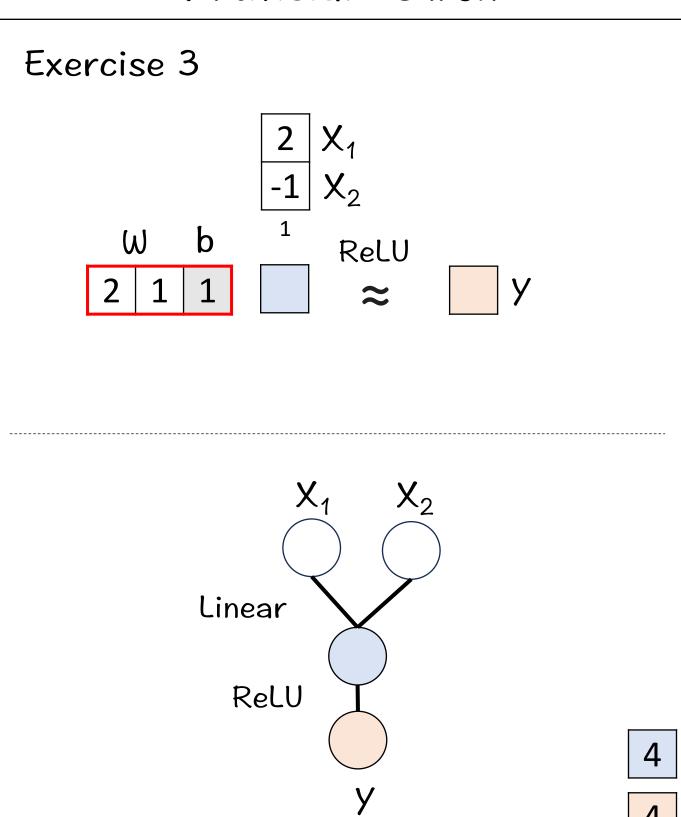
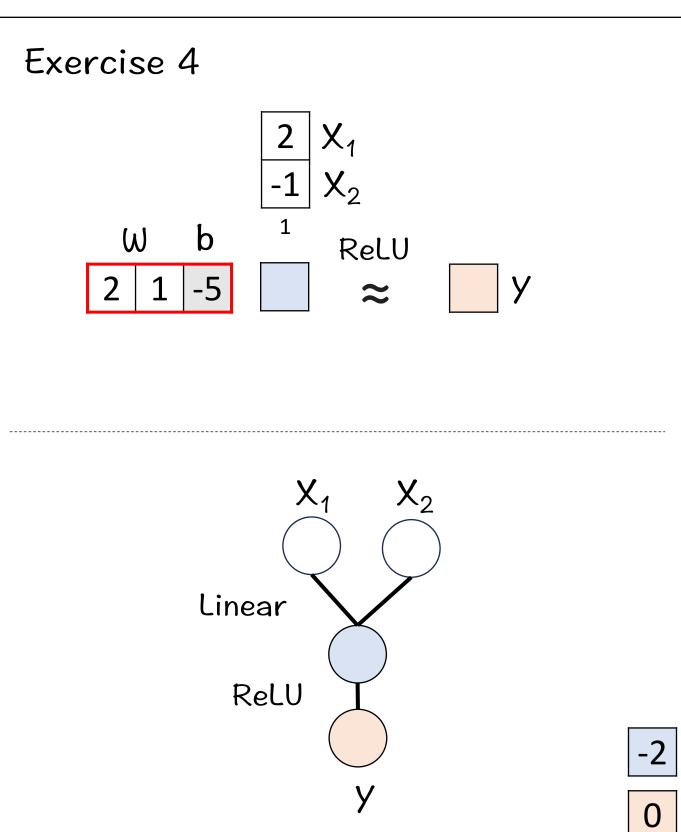
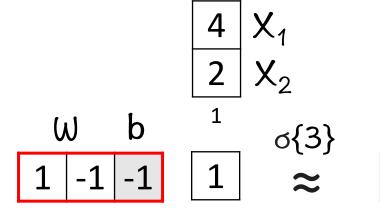


Linear ReLU V



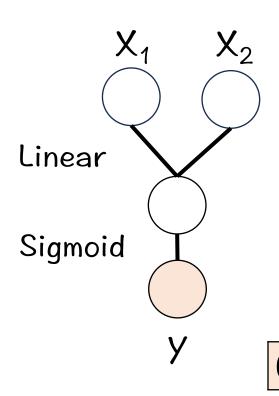


Exercise 5

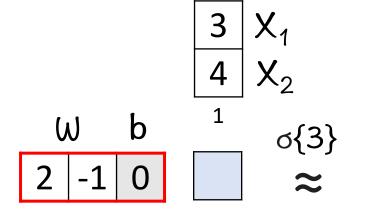


3 Level Quantization for hand calculation $\stackrel{\checkmark}{
ightharpoond}$

Integer	Sigmoid o		
>= 2	1		
-1, 0, 1	0.5		
<= -2	0		

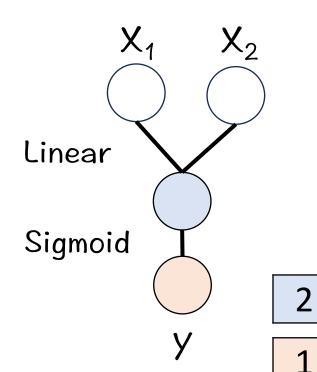


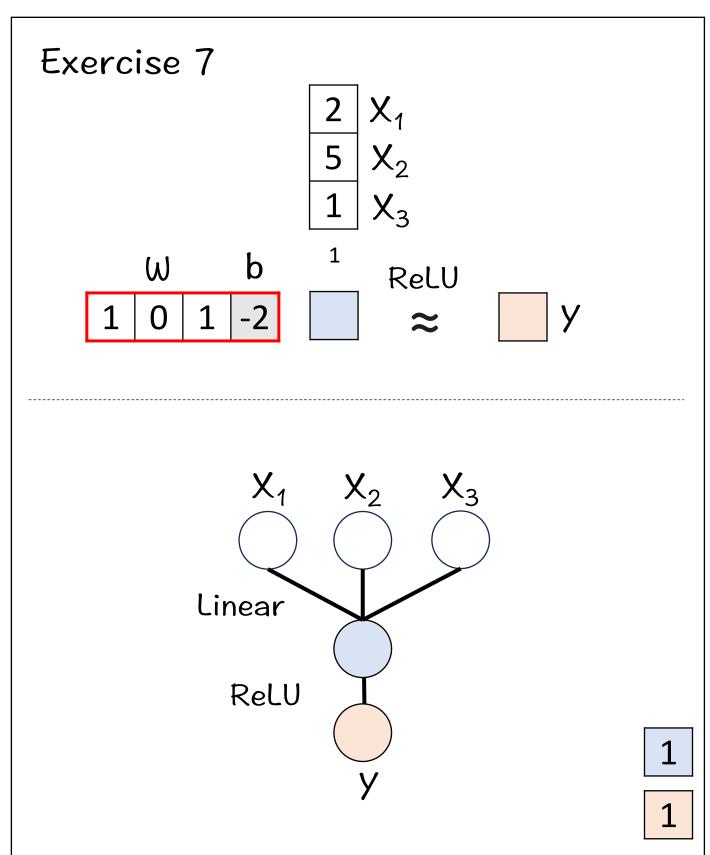
Exercise 6

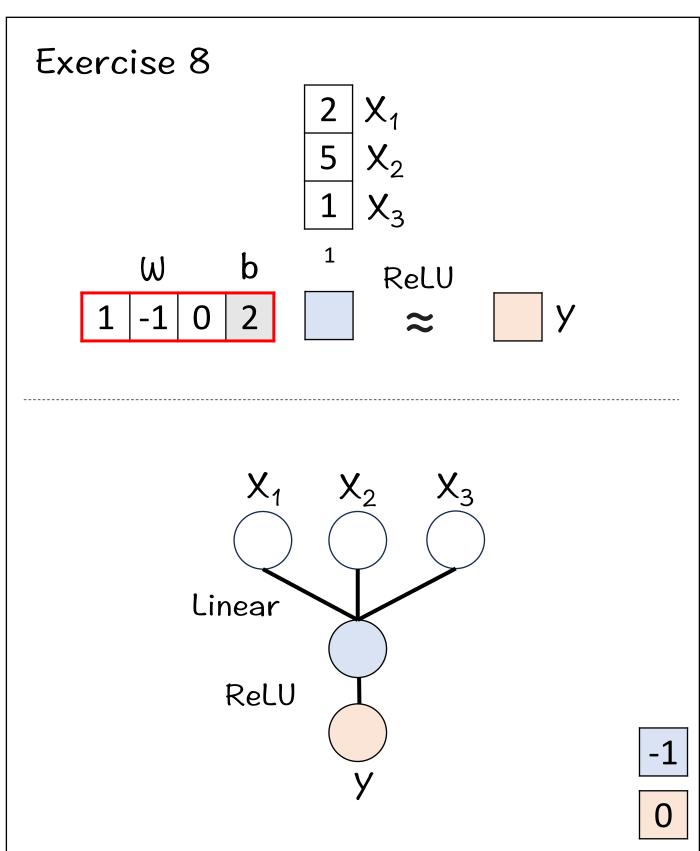


3 Level Quantization for hand calculation $\stackrel{\checkmark}{
ightharpoond}$

Integer	Sigmoid o		
>= 2	1		
-1, 0, 1	0.5		
<= -2	0		







Exercise 9

2 X₁
5 X₂
1 X₂

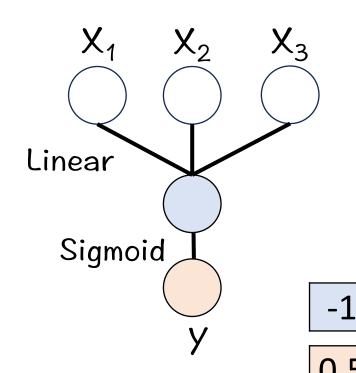
W b

1 o{3} ≈

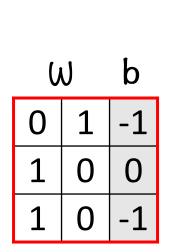
У

3 Level Quantization for hand calculation $\stackrel{\checkmark}{
ightharpoond}$

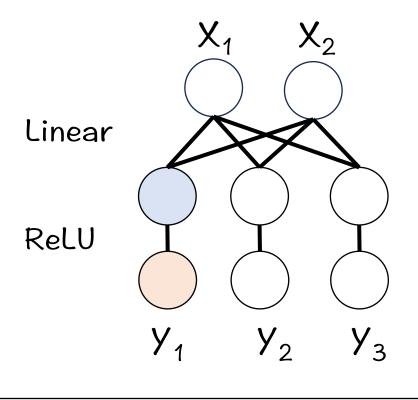
Integer	Sigmoid o		
>= 2	1		
-1, 0, 1	0.5		
<= -2	0		





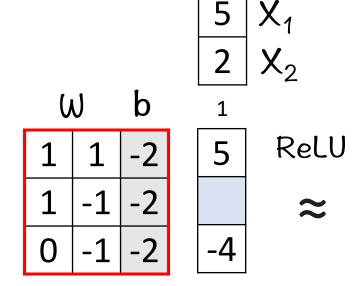


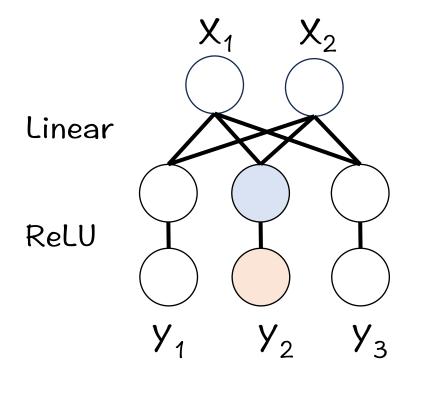
4	X_1		
6	X_2		
1			
	ReLU		y ₁
4	≈	4	y ₂
3		3	y ₃



5

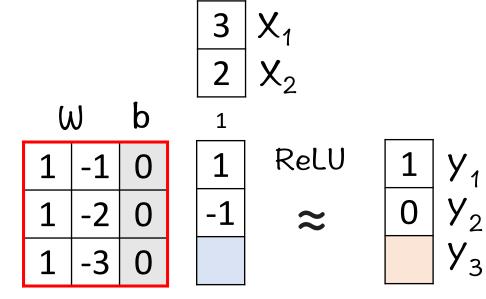
Exercise 11

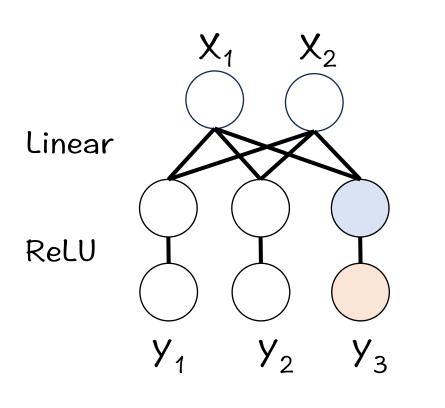


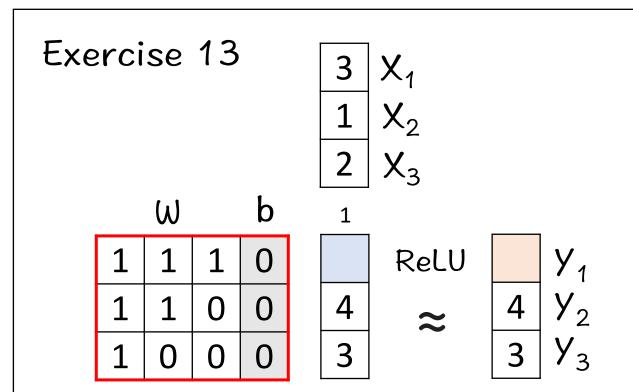


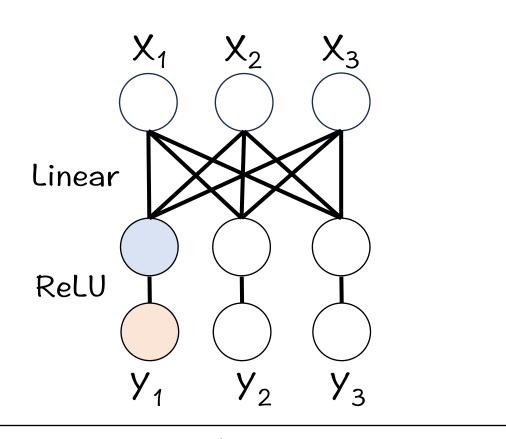
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Exercise 12

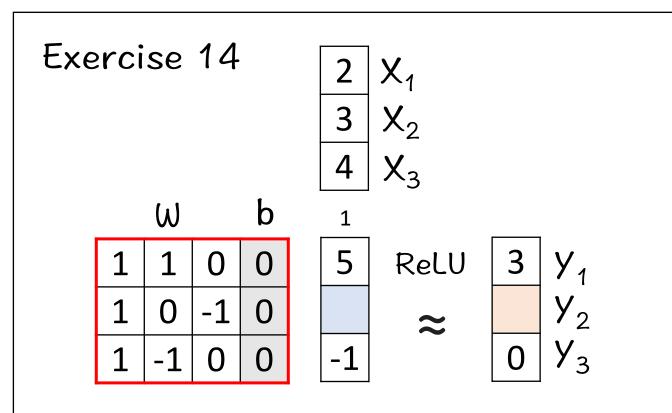


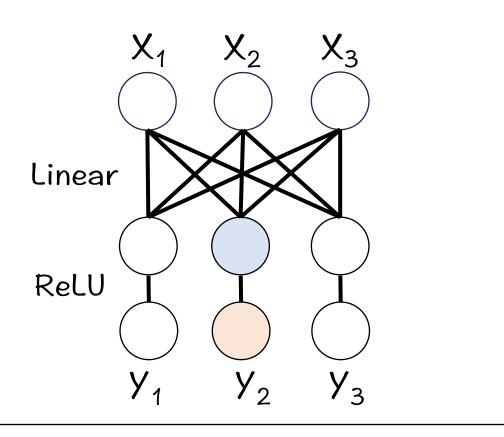




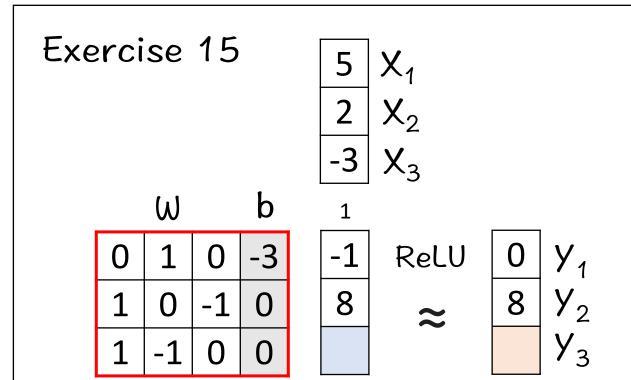


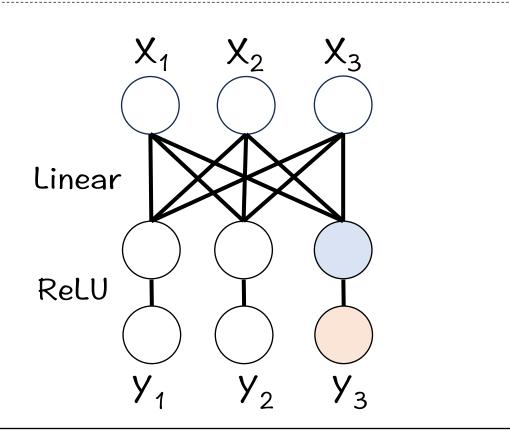
6

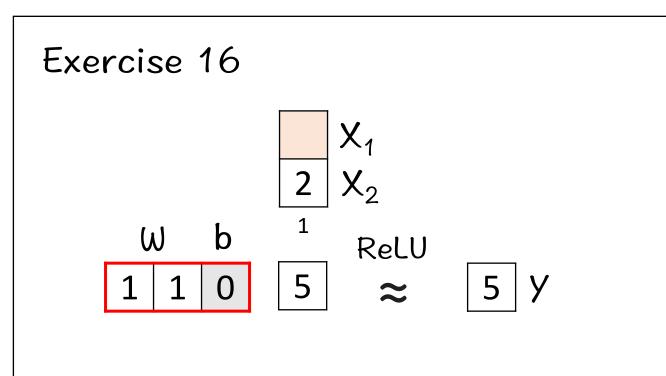




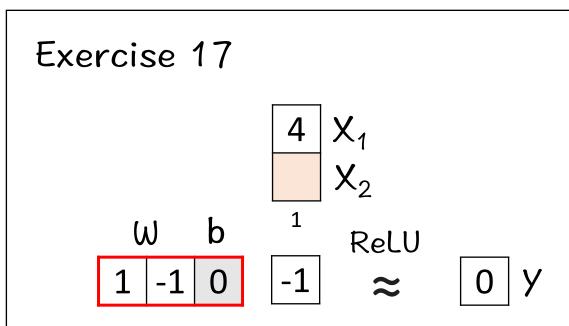
-2



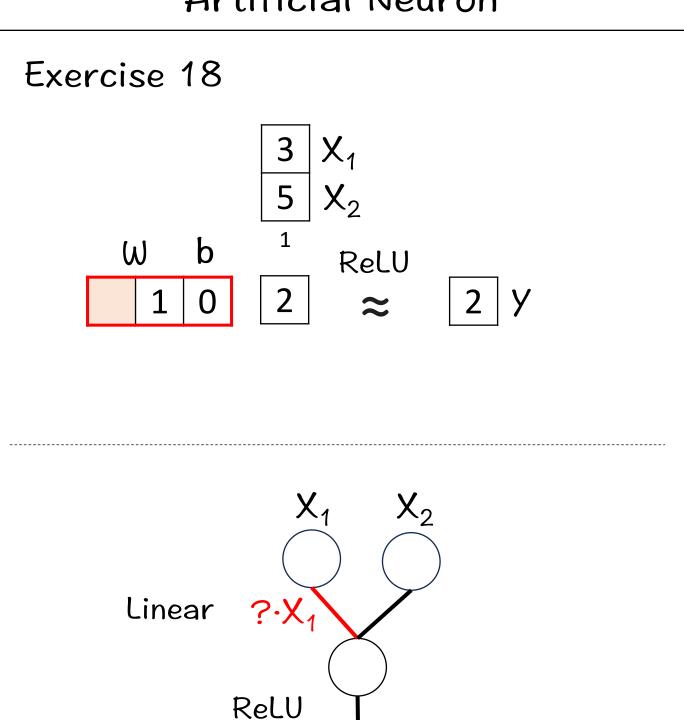


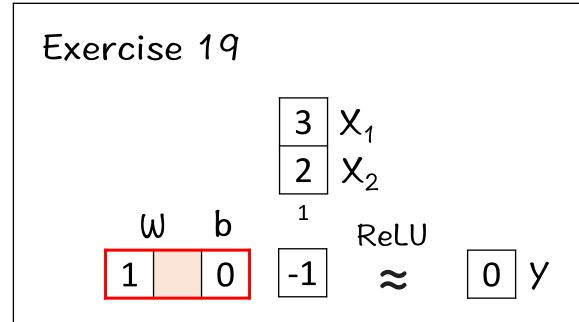


Linear ReLU y

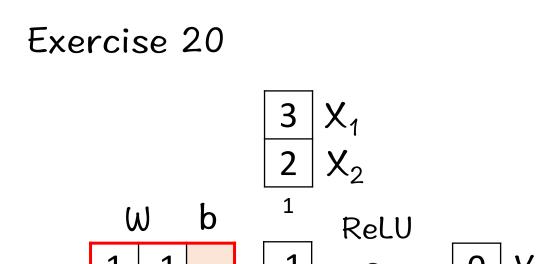


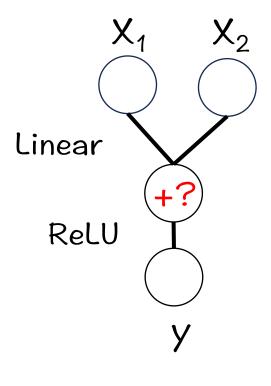
Linear ReLU y

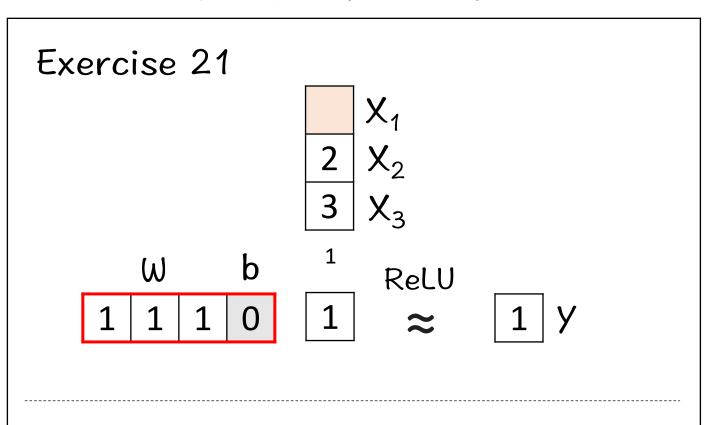


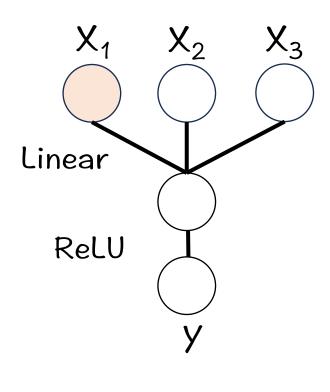


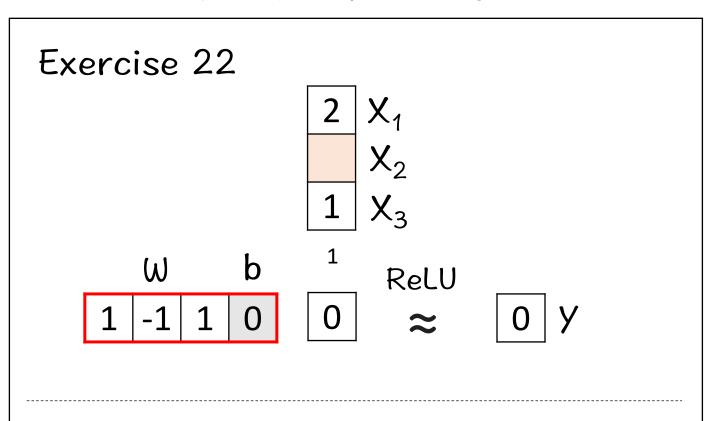
Linear $\begin{array}{c} X_1 & X_2 \\ ?\cdot X_2 \\ \\ ReLU & \\ y \end{array}$

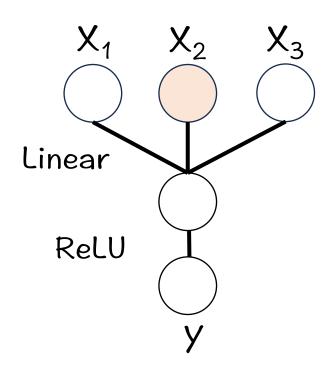


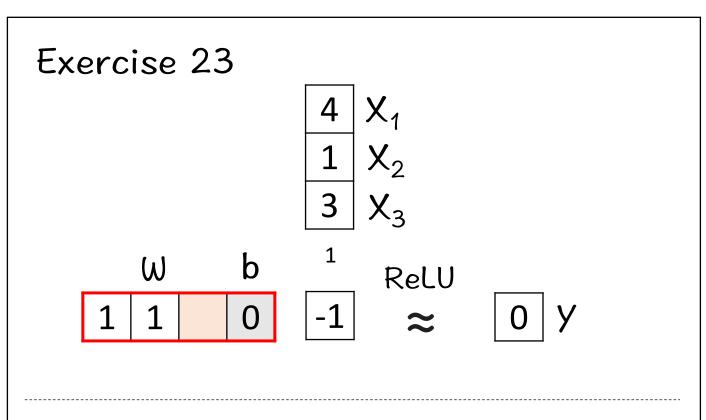


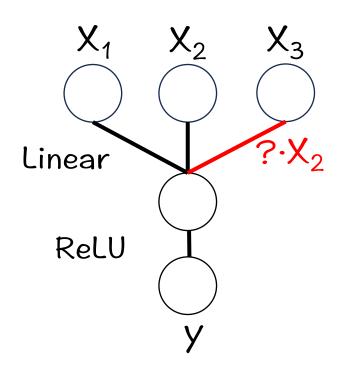


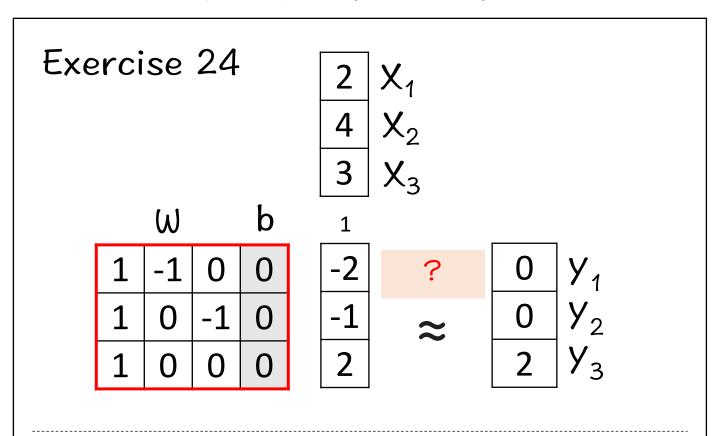


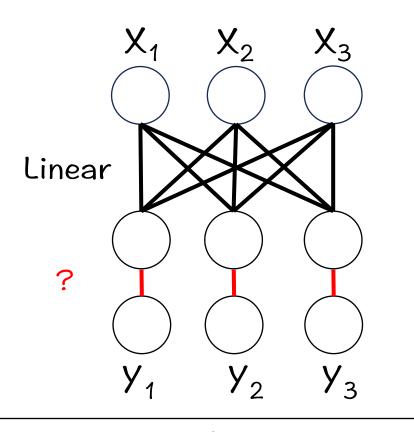




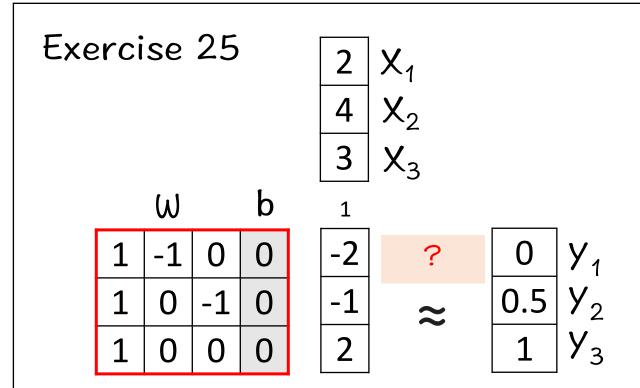


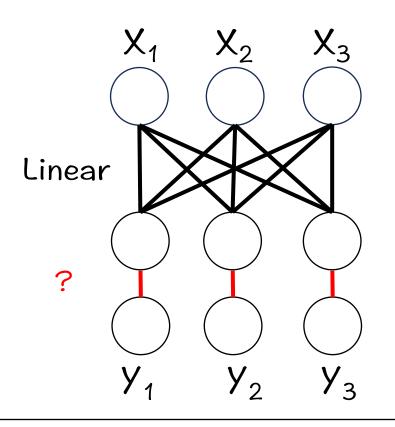






ReLU





Sigmoid