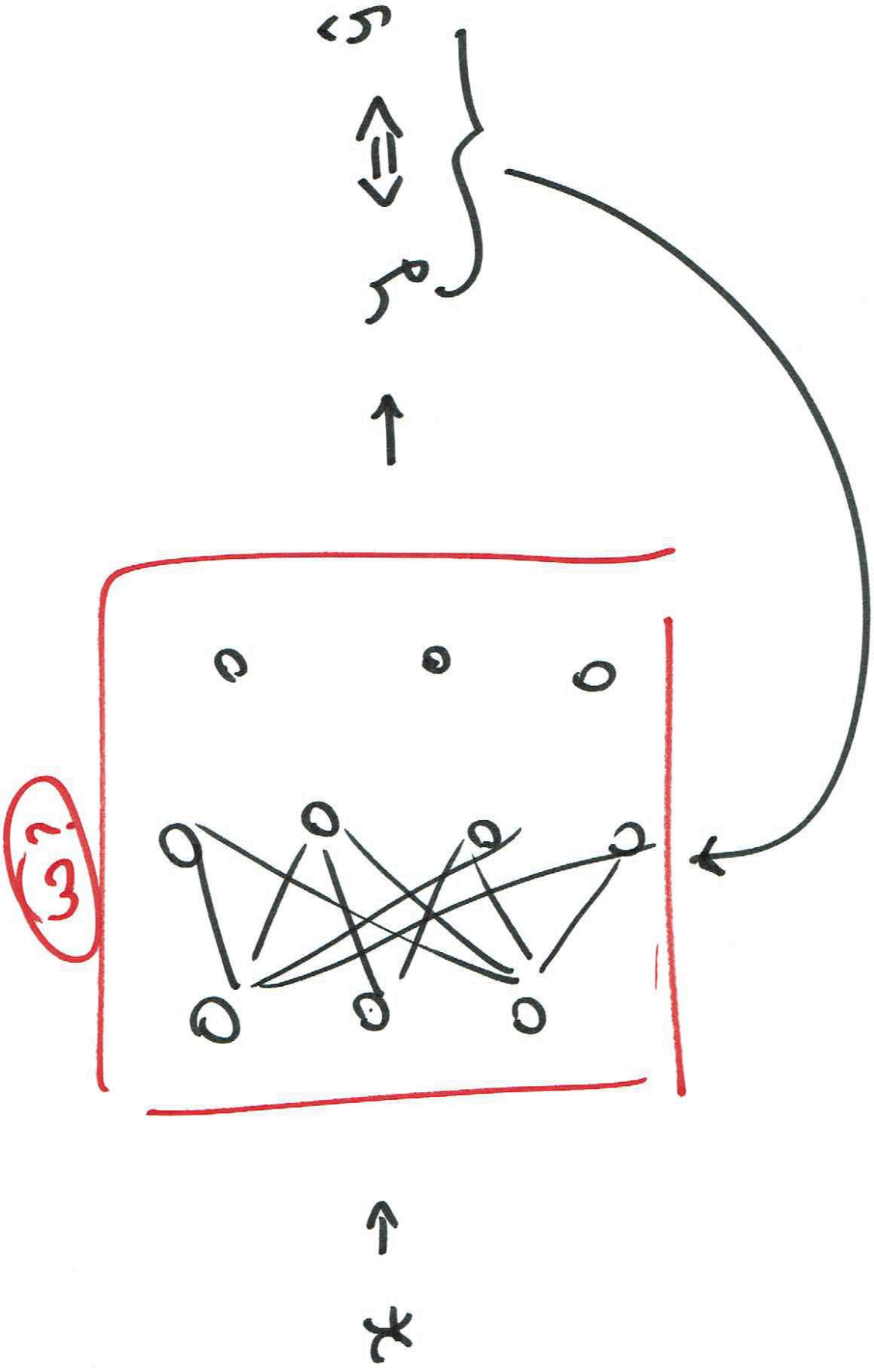
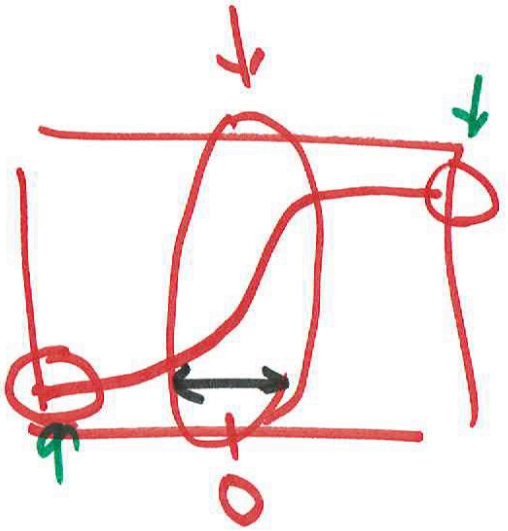


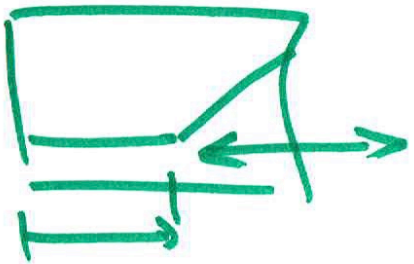
$$z_j = f\left(\sum_i w_{ij} x_i + b_j\right)$$

$w_{ij} = 0$ ✗

$w_{ij} = \text{large}$ ✗

$w_{ij} = N(0,1) \times 0.01$ ✗





Sigmoid & tanh

↳ Xavier

$w_{ij} \sim U\left(-\frac{1}{\sqrt{n}}, \frac{1}{\sqrt{n}}\right)$

$w_{ij} = N\left(0, \frac{1}{n}\right)$

ReLU

↳ He

$w_{ij} = N\left(0, \frac{2}{n}\right)$