$$\vec{\Omega}^{(3)} = \mathcal{N}^{(3)} \vec{\alpha}^{(2)} + \vec{b}^{(3)}$$

for network in Figure 2. a

$$\vec{a}^{(3)} = W^{(3)} \vec{a}^{(2)} + \vec{b}^{(3)}$$

so for network in Figure 2.6

$$N = N^{(1)}N^{(2)}N^{(3)}\vec{c}^{(0)}$$
 $\hat{b} = N^{(1)}N^{(3)}\vec{b}^{(1)} + N^{(3)}\vec{b}^{(2)} + \vec{b}^{(3)}$