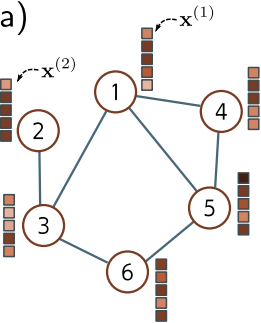
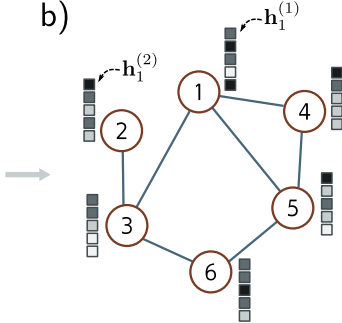


a)

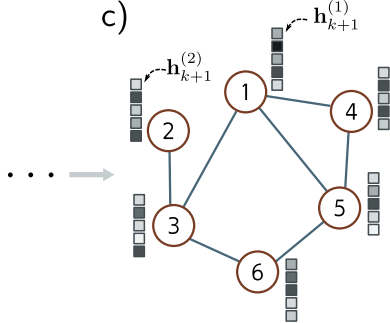


b)



$$\mathbf{h}_1^{(n)} = \mathbf{a} \left[ \beta_0 + \mathbf{\Omega}_0 \mathbf{x}_1^{(n)} + \mathbf{\Omega}_0 \mathbf{agg}[n] \right]$$

c)



$$\mathbf{h}_{k+1}^{(n)} = \mathbf{a} \left[ \beta_k + \mathbf{\Omega}_k \mathbf{h}_k^{(n)} + \mathbf{\Omega}_k \mathbf{agg}[n] \right]$$