$$\mathbf{U}_1 = f_1 \left(\mathbf{X} \mathbf{W}_1^T + \boldsymbol{\theta}_1 \right) \quad \mathbf{U}_2 = f_2 \left(\mathbf{U}_1 \mathbf{W}_2^T + \boldsymbol{\theta}_2 \right)$$



