

 $\mathbf{u}_1 = f(\mathbf{W}_1\mathbf{x} + \boldsymbol{\theta}_1) \quad \mathbf{u}_2 = f(\mathbf{W}_2\mathbf{u}_1 + \boldsymbol{\theta}_2) \quad \mathbf{u}_3 = f(\mathbf{W}_3\mathbf{u}_3 + \boldsymbol{\theta}_3)$