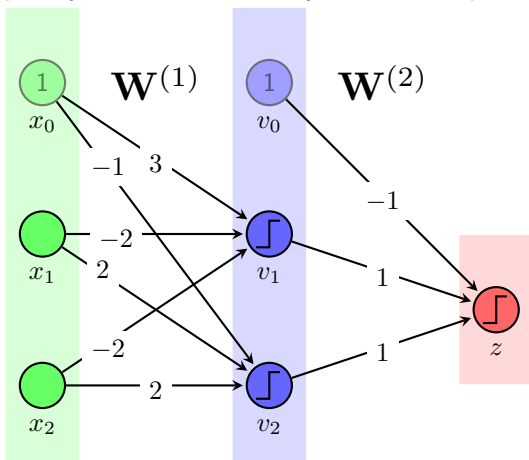


Input layer

Hidden layer

Output layer



$$\mathbf{W}^{(1)} = \begin{bmatrix} 3 & -1 \\ -2 & 2 \\ -2 & 2 \end{bmatrix}$$

$$\mathbf{W}^{(2)} = \begin{bmatrix} -1 \\ 1 \\ 1 \end{bmatrix}$$

$v_0 = 1$ (bias, don't forget!)

$$v_1 = f\left((\mathbf{w}_1^{(1)})^T \mathbf{x}\right)$$

$$v_2 = f\left((\mathbf{w}_2^{(1)})^T \mathbf{x}\right)$$

$$z = f\left((\mathbf{w}_1^{(2)})^T \mathbf{v}\right)$$

$$f(.) = \text{sgn}(.)$$