

$$\mathbf{x}^* = \arg \min_{\mathbf{x}} \sum_{i \in \mathcal{V}} \boxed{\psi_i(0)}(1 - x_i) + \boxed{\psi_i(1)}x_i + \sum_{i,j \in \mathcal{E}} (K_{ij}(1 - x_i)x_j + K_{ij}(1 - x_j)x_i)$$

**Could be arbitrary**

**we can add the same constant to make them positive**

**the solution will not change**