$$E(x) = \min_{y \in \mathbb{R}^n} E(y) = \min_{y \in \mathbb{R}^n} \frac{1}{2}(Ay, y) - (b, y)$$

$$n=2: \quad E(y_1, y_2) = \frac{1}{2} \sum_{i=1}^{2} \sum_{j=1}^{2} a_{ij} y_i y_j - \sum_{i=1}^{2} b_i y_i$$

$$-\nabla E(y) = b - Ay =: d$$