SVM exercise

We are given the formulation of SVM's optimization on the left side (see below) and the canonical form of a quadratic optimization on the right side.
Could you write the values of the matrixes/vectors u, Q, p, A and c for the equivalent SVM optimization in canonical form?

$$\underset{b,w}{\text{minimize}} \quad \tfrac{1}{2}\mathbf{w}^T\mathbf{w}$$

$$\text{subject to: } y_n(\mathbf{w}^T\mathbf{x}_n + b) \geq 1 \text{ for } n = 1,\ldots, N.$$

$$\underset{u\in\mathbb{R}^q}{\text{minimize}} \quad \tfrac{1}{2}\mathbf{u}^T Q\mathbf{u} + \mathbf{p}^T\mathbf{u}$$

$$\text{subject to: } A\mathbf{u} \geq \mathbf{c}$$

For the below defined examples input examples X and output labels Y, write down the u, Q, p, A and c for the canonical form of the SVM's quadratic optimization formulation.

$$X = \begin{bmatrix} 0 & 0 \\ 2 & 2 \\ 2 & 0 \\ 3 & 0 \end{bmatrix} \quad y = \begin{bmatrix} -1 \\ -1 \\ +1 \\ +1 \end{bmatrix}$$