

$$A = 1 \quad \text{Definir}$$

$$d = 0.01 \quad \text{Definir}$$

$$N = 5 \quad \text{Definir}$$

$$V = 1 \quad \text{Definir}$$

$$V_o = 0 \quad \text{Definir}$$

$$dy = \frac{d}{N} \quad \text{Definir}$$

$$a_N = \frac{A}{dy} \quad \text{Definir}$$

$$a_S = \frac{A}{dy} \quad \text{Definir}$$

$$S_p = \frac{2A}{dy} \quad \text{Definir}$$

$$dy = 0.002 \quad \text{Calc}$$

$$a_N = 500. \quad \text{Calc}$$

$$a_S = 500. \quad \text{Calc}$$

$$S_p = 1000. \quad \text{Calc}$$

$$C = \begin{pmatrix} a_N + S_p & -a_N & 0 & 0 & 0 \\ -a_S & a_S + a_N & -a_N & 0 & 0 \\ 0 & -a_S & a_S + a_N & -a_N & 0 \\ 0 & 0 & -a_S & a_S + a_N & -a_N \\ 0 & 0 & 0 & -a_S & a_S + S_p \end{pmatrix} \quad \text{Definir}$$

$$b = \begin{pmatrix} S_p \cdot V_o \\ 0 \\ 0 \\ 0 \\ S_p \cdot V \end{pmatrix} \quad \text{Definir}$$

$$C = \begin{pmatrix} 1500. & -500. & 0. & 0. & 0. \\ -500. & 1000. & -500. & 0. & 0. \\ 0. & -500. & 1000. & -500. & 0. \\ 0. & 0. & -500. & 1000. & -500. \\ 0. & 0. & 0. & -500. & 1500. \end{pmatrix} \quad \text{Calc}$$

$$\mathbf{b} = \begin{pmatrix} 0. \\ 0. \\ 0. \\ 0. \\ 1000. \end{pmatrix} \quad \text{Calc}$$

$$\text{resolver}(\mathbf{C}, \mathbf{b}) = \begin{pmatrix} 0.1 \\ 0.3 \\ 0.5 \\ 0.7 \\ 0.9 \end{pmatrix} \quad \text{Calc}$$