

$$\begin{bmatrix} 1 & 0 & 0 & & & \\ \delta_1 & 2\delta_1 + 2\delta_2 & \delta_2 & \ddots & & \\ 0 & \delta_2 & 2\delta_2 + 2\delta_3 & \delta_3 & & \\ & \ddots & \ddots & \ddots & \ddots & \\ & & & \delta_{n-2} & 2\delta_{n-2} + 2\delta_{n-1} & \delta_{n-1} \\ & & & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} c_1 \\ \vdots \\ c_n \end{bmatrix} = \begin{bmatrix} 0 & & & & & \\ & 3\left(\frac{2}{\delta_2} - \frac{1}{\delta_1}\right) & & & & \\ & & \ddots & & & \\ & & & \ddots & & \\ & & & & 3\left(\frac{n-1}{\delta_{n-1}} - \frac{n-2}{\delta_{n-2}}\right) & \\ & & & & & 0 \end{bmatrix}.$$