$$T = (D-I)^2 : \mathcal{T}_n(\mathbb{R}) \to \mathcal{T}_n(\mathbb{R})$$

mentrix of Twent basis El, x,..., x"3 is.

$$A = \begin{pmatrix} 1 & -7 & 2 & 0 \\ 0 & 1 & -4 & 6 \\ 0 & 0 & 1 & 6 \\ 0 & 0 & 0 & 1 \end{pmatrix}$$

(to I)

Can filed inverse by row-reducing A & performing some operations on I.

$$\int_{0}^{1} \left(\lambda_{0} + \lambda_{1} \times + \lambda_{2} \times^{2} + \lambda_{3} \times^{3} \right)$$

$$= \lambda_0 + 2\lambda_1 + \lambda_1 \times + 6\lambda_2 + 4\lambda_2 \times + \lambda_2 \times^2 + 24\lambda_3 + 18\lambda_3 \times + 6\lambda_3 \times^2 + 1 \times^3$$

$$f = -1 + 2 + x = x + 1$$