Optimal analytic expression of T:

Solve using the accompanying matrix of the polynomial:

Polynomial:

$$p(x) = x^{n} + c_{n-1}x^{n-1} + c_{n-2}x^{n-2} + \dots + c_{1}x + c_{0}$$

Its accompaniment matrix:

$$\mathbf{M_x} = \left[egin{array}{cccccc} 0 & 0 & ... & 0 & -c_0 \ 1 & 0 & ... & 0 & -c_1 \ 0 & 1 & ... & 0 & -c_2 \ ... & ... & ... & ... \ 0 & 0 & ... & 1 & -c_{n-1} \ \end{array}
ight]$$

The feature value is the root of P (x). So use EIGEN for polynomial solution.

matrix_eigenvalues = matrix_44.eigenvalues();

Result:

