$$
\begin{aligned}
T_0(x) &= 1 \\
T_1(x) &= x \\
T_2(x) &= 2x^2 - 1 \\
T_3(x) &= 4x^3 - 3x \\
T_4(x) &= 8x^4 - 8x^2 + 1 \\
&\cdots \\
T_{n+1}(x) &= 2xT_n(x) - T_{n-1}(x) \quad n \geq 1.
\end{aligned}
$$