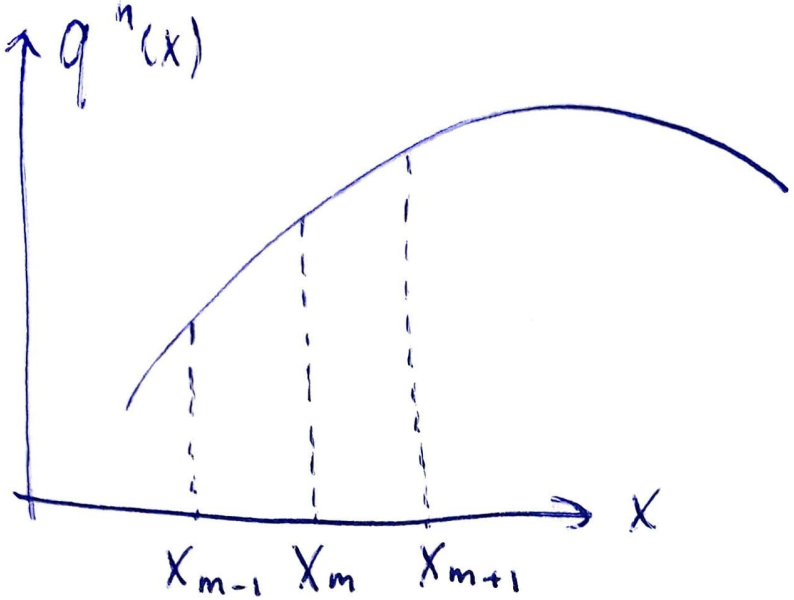
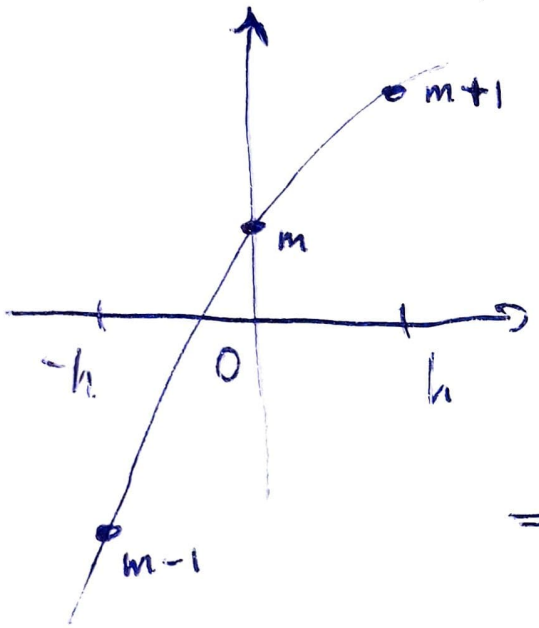


$$q = ax^2 + bx + c$$

$$x^*_m = x_m - \lambda \Delta t$$



$$\begin{cases} q^n_{m-1} = ah^2 - bh + c \\ q^n_m = a \cdot 0^2 + b \cdot 0 + c \\ q^n_{m+1} = a \cdot h^2 + b \cdot h + c \end{cases} \Rightarrow$$

$$\Rightarrow \begin{cases} a = \dfrac{q^n_{m+1} + q^n_{m-1} - 2q^n_m}{2h^2} \\ b = \dfrac{q^n_{m+1} - q^n_{m-1}}{2h} \\ c = q^n_m \end{cases}$$

$$q^{n+1}_m = q^n(x^* = -\lambda\tau) = a(\lambda\tau)^2 - b(\lambda\tau) + c$$