7.8. $W = \lim\{1, T\}$

$S \approx aT + b$

$$\begin{bmatrix} \langle 1,1\rangle & \langle T,1\rangle \\ \langle 1,T\rangle & \langle T,T\rangle \end{bmatrix} \cdot \begin{bmatrix} b \\ a \end{bmatrix} = \begin{bmatrix} \langle S,1\rangle \\ \langle S,T\rangle \end{bmatrix}$$

$$\langle 1,1\rangle = \sum_{i=0}^{7} 1 \cdot 1 = 8$$

$$\langle 1,T\rangle = \sum_{i=0}^{7} 1 \cdot t_i = 0+10+\ldots+95 = 365$$

$$\langle T,T\rangle = \sum_{i=0}^{7} t_i^2 = 0^2+10^2+\ldots+95^2 = 26525$$

$$\langle S,1\rangle = \sum_{i=0}^{7} s_i = 68{,}0+67{,}1+\ldots+60{,}0 = 514{,}5$$

$$\langle S,T\rangle = \sum_{i=0}^{7} s_i t_i = 0\cdot 68{,}0+10\cdot 67{,}1+\ldots+95\cdot 60{,}0 = 22685$$

$$\begin{bmatrix} 8 & 365 \\ 365 & 26525 \end{bmatrix} \cdot \begin{bmatrix} b \\ a \end{bmatrix} = \begin{bmatrix} 514{,}5 \\ 22685 \end{bmatrix}$$

$$\begin{cases} 8b + 365a = 514{,}5 \\ 365b + 26525a = 22685 \end{cases}$$

a_2 $-0,07983304$

b_2 $67,9593$