

Mencari Uji Autokorelasi

a. Mencari \hat{Y}

$$\begin{aligned}\hat{Y} &= a + bx_1 + bx_2 + bx_3 \\ &= 26,314 + 0,370 (54) + 0,370 (63) + 0,239 (57) \\ &= 26,314 + 19,98 + 23,31 + 13,623 \\ &= 79,079\end{aligned}$$

b. Mencari e_t

$$\begin{aligned}e_t &= \hat{Y} - \text{variabel } Y \\ &= 79,079 - 58 \\ &= 25,342\end{aligned}$$

c. Mencari e_t^2

$$\begin{aligned}e_t^2 &= e_t \times e_t \\ &= 25,342 \times 25,342 \\ &= 642,230\end{aligned}$$

d. Mencari e_t^3

$$\begin{aligned}e_t^3 &= e_t^2 \times e_t \\ &= 642,230 \times 25,342 \\ &= 16276,888\end{aligned}$$

e. Mencari e_{t-1}

$$\begin{aligned}e_{t-1} &= e_t^2 - \hat{Y} \\ &= 642,230 - 79,079 \\ &= 563,151\end{aligned}$$

f. Mencari $e_t - e_{t-1}$

$$\begin{aligned}e_t - e_{t-1} &= \hat{Y} - e_t^2 \\ &= 79,079 - 642,230 \\ &= -563,151\end{aligned}$$

g. Mencari $e_t - e_{t-1}$

$$\begin{aligned}e_t - e_{t-1} &= e_{t-1} - e_{t-1} \\ &= 563,151 - (-563,151) \\ &= 1126,302\end{aligned}$$