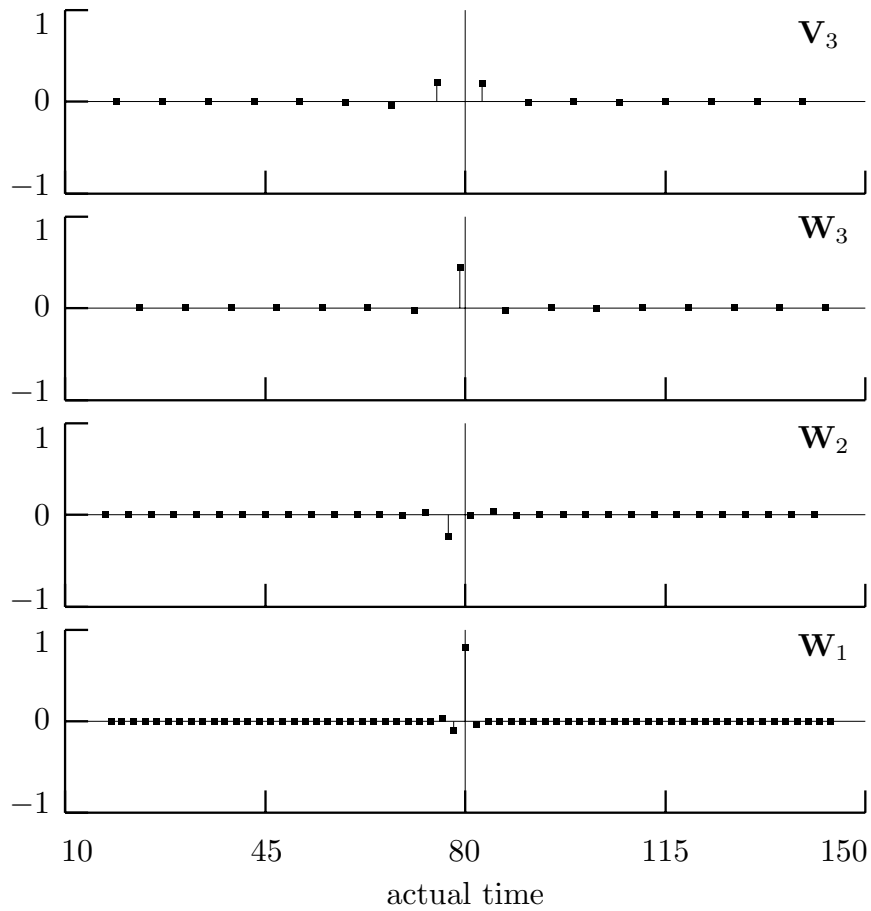**Figure 519.** Squared gain function $\mathcal{A}(\cdot)$ for the filter $\{a_0 = -1/\sqrt{2}, a_1 = 0, a_2 = 0, a_3 = -1/\sqrt{2}\}$.

Figure 524. Wavelet and scaling coefficients for a level $J_0 = 3$ partial LA(8) DWT of a time series $\{X_t : t = 0, \ldots, 127\}$ that is zero everywhere for $X_{63} = 1$. The tth value of X_t is associated with actual time $t + 17$, so X_{63} is associated with actual time 80, which is indicated by the thin vertical lines in the plots above.