







 $f_{1}(t) = -2\delta_{1}(t-2) + 2\delta_{2}(t-1) - 2\delta_{2}(t-2)$ $f_{2}(t) = i_{5}(t) = -2h_{1}(t-2) + 2h_{2}(t-1) - 2h_{2}(t-2)$ $= -2\left(\frac{1}{2} - \frac{1}{3}e^{-(t-2)/3}\right)\delta_{1}(t-2) + 2\left(\frac{1}{2}(t-1) + \frac{1}{2}e^{-(t-1)/3} - 1\right)\delta_{1}(t-2)$ $+ e^{-(t-1)/3} - 1)\delta_{1}(t-2) + 2\left(\frac{1}{2}(t-2) + e^{-(t-2)/3} - 1\right)$ $\delta_{1}(t-2)$