$$\tilde{F}(t) = \frac{1}{2}\int_0^t \int_0^t G(2t - \tau_1 - \tau_2)\, \varepsilon(\tau_1)\, \varepsilon(\tau_2)\, d\tau_1 d\tau_2$$

$$\bar{F}(t) = \frac{1}{2c}\left(\int_0^t G(t - \tau)\, \varepsilon(\tau) d\tau\right)^2$$

Where: $G(z) = ce^{-\lambda z}$ and $\varepsilon(z)$ is an arbitrary given function

Show that $\tilde{F}(t) = \bar{F}(t)$