

$$x_c(t) = \begin{cases} (12\mu - \sigma^4)\tau & 0 < \tau < \tau = 1\sigma \\ 12\mu + ((12\mu - \sigma^4)(\tau - \tau) - (1\mu - \sigma^3)(\tau - \tau)^3) \Big|_{\tau}^{\tau} & 1\sigma < \tau < \tau \end{cases}$$