$u'' + u = \xi(-u^2 + 2uu') + \xi'(u' - u)$ $u = \mathcal{U}(t, \tau, s)$ $\tau = \epsilon t$, $s = \epsilon^2 t$ W=Vo+ &U,+-- As in q.2, Vo(t, T,5)= U(t, s) U₀ = Aspeit + e.c. (V)t U₁ + U₁ = -U₀ + 2U₀U₀t $= -A^{2} \frac{2it}{e} - A^{2} \frac{e^{2it}}{-2AA}$ $+ 2iA^{2} \frac{e^{2it}}{e^{2it}} \frac{2it}{e^{2it}}$ $= 2it \frac{2it}{e^{2it}} \frac{2it}{e^{2it}} \frac{2it}{e^{2it}}$ $= e^{2it} (A^2)(-1+2i) + c.c. - 2AA$ -2U0+5 = U., - U. +2 [-U.U] +(U.U)] -2 U.ts

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