(I) Kcl in Va= VA-1 + 1 dVA + VA-VB + VA-Vout = 0 => 4VA + 2 dVA - Vout = 2 KCL in VB: 4 - 1 d(VB-Vout) = 0 => VA = -1 dVout (II) in (I) > 4 (= dVout) + 2 d (= dVout) - Vout = 2 => dVout 12 dVo + Vo= -2 => Vout (t) = (c1+C2t)e - 2 سخماره ، ک² + 2 کر + ا = 0 => کر - ا : Vout (o') = Vout (o') => Vout (o) = C1 - 2 = 0 => C1 = 2 dVout (0): C1-C2 = 0 => C1 = C2 => $S(t) = \left[\left(2 + 2t \right) e^{t} - 2 \right] \times u(t) => h(t) = \frac{dS(t)}{dt} = \left(-2e^{t} + 2e^{-t} + 2e^{-t} \right) \times u(t)$ + 8(t) (12+2t) e -2)