En t: $v_{\ell}(t) = l \int_{t}^{t_{\ell}(t)} i_{\ell}(t) = \frac{1}{l} \int_{0}^{\infty} v_{\ell}(\tau) d\tau + i_{\ell}(0^{+})$ V(t) L Sic(r) dr + vc(o+) ielt - C dvc(t) Un(t)=R·in(t) in(t)= Ve(t) in(t)= ie(t)= ie(t)= ie(t)=1(t) Ahora en s (Transformada de Caplace): VR(S)-R·I(S) V(5)_SLI(5)-Li(0+) V((5) - 1 I(5) + 1 ve (0+) 21 v; (t) 3 - V; (5) Por LVK: V; (s)= Va(s) + V_(s) + Vo(s) V; (5) - R·I(5) + (5L I(5) - Li(0+)) + (1 I(5) + 1 Ve(0+)) V;(3) - (R+SL+1) I(5) - Li(0+) + L ve (0+) Se despeja I(s): $I(s) = \frac{s(1)}{16s^2 + R(s+1)} = \frac{V_1(s)}{16s} + \frac{V_2(0^{\dagger})}{16s} = \frac{V_2(0^{\dagger})}{16s}$ $J(s) = \frac{s(V_{1}(s))}{LCs^{2} + RCs + L} + \frac{s(L_{1}(o+))}{LCs^{2} + RCs + L} = \frac{(V_{2}(o+))}{LCs^{2} + RCs + L}$ Se tiere que V(s) = Y(s), V(t) = y(t), X(s) = V;(s), X(t) = v;(t) I(5) - SCX(5) + SC(100+) - (Vc(0+))
L(52+R(5+1) - L(52+R(5+1)) Se sabe que Y(3) Vc (5) = 1 I(5) + 1 Vc (0+)

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 $Y(s) = \frac{1}{sC} \left[\frac{sC \times (s)}{LCs^2 + RCs + L} + \frac{sC L i(0^{\dagger})}{LCs^2 + RCs + L} - \frac{C v_{c}(0^{\dagger})}{LCs^2 + RCs + L} \right] + \frac{V_{c}(0^{\dagger})}{s}$ $Y(s) = X(s) + Li(0^{\dagger}) + Vc'(0^{\dagger}) + Vc(0^{\dagger}) + Vc(0^{\dagger})$ $LCs^{2} + RCs + L + LCs^{2} + RCs + L + S(LCs^{2} + RCs + L) + S$ Se combinan los términos con ve (0+) = y(0+) Y(s) - X(s) + Li(ot) + Ve(o+)[L -] + (cs + RCs + L) Y(5) X(5) + Li(0t) + L(5+RC y(0+))
-L(5) + R(5+L + L(5) + R(5+L + L(5) + R(5+L + L(5) + R(5+L + L(5) + R(5) + L(5) Y(5) = X(5) + RC+LCs y(0+) + LCs2+RCs+L 2(0+)