

 $i_{c} = C \frac{dV_{c}}{dt}$   $i_{c} = L \frac{dV_{c}}{dt}$   $V_{L} = L \frac{dV_{c}}{dt}$ Hint: If you forgot how Cs and Ls act in steady state, remember that

Find I, (vo)= V(00) =  $I_{2}(\infty) = L_{3}(\infty) =$ V2(00)= 1, (00)=

Pop Quiz 3A O Not tor a grade! Leeley 2H il Name: Both sources are DC and 192 have been on forever, when 2V = I + V / IMF + LO I - V / IMF IN 1 Suddenly, at t=0, they are completely destroyed by some external magic.  $0.i_{(-5)} = V_{(-5)} =$ 1, Find i(0),  $\frac{di}{dt}(0)^{*}$  f = easy to getstruck, so move onif your do get struk.Not magic, 2. Describe qualitatively how might look. Briefly, be Describe 3. How would you find the homogeneous solution? (natural response) 4. How would you find the particular solution? (forced response). What is i (a.k.a steady state)  $V_{(t)} = O_{T_{W}F}^{\text{level}}$   $cos(at) O_{R}^{\text{level}}$ 5. Suppose we added an AC source How would we find the steady state of VR(+)? 6. If we set  $V_{in}(t) = cos(wt)$ . What is  $H(jw) = \frac{V_R}{V_{in}}$ ?