Ceth (tan (E(E)SI! Prelat 5 Vix (Ve Vout R= Kr L= 17mH C= 100 LF O Find H(A) = Vout (5) in ferms of A, L, and C. Vout (+) = L dIL(+) = + S, I.(T) dT LVL Q L1: Vin - VR - Vent = 0 IL = Vout (+) df = Vout (+) Vin(+)-VR = Vout(+) Ic = (d Voutlt) = (Noutl Vin(4)-RIA(4) = Vout (4) L (Vik(t) - R (IL + Ic)) = L(Vout(4)) Vik(s) - R (Vout(s) + (s Vout(s)) = Vout(s) Vik(s) = Vout(s) + R (Vout(s) + (s Vout(s)) H(S) = Vout(S) = Vout(S) [1+8(i'c+C)] - Ls +R(1+LCs2) - Ls 27x/13/5 - (1000)(17x/1) (100x/03) s2 +2/x/03+1000 (or his e complex) -> (doesn't factor: put into calc)

$$(Cont + leas (cont land) + findle one)$$

$$(Cont + leas (cont land) + findle one)$$

$$(Cont + leas (cont land) + leas (cont$$