Rofa I wowt = 160 Current as input. 012) ION - VECA) 9(t)=105in(100++30) -) 10 L-60° KV(=) Vs(t) = Vx(t) + Vc(t) =) Vs(t) = 10 i(t) + 1 (16) dt = losin (106+ +30°) + 1 (105in (60+ 30°) dt = losin(100+300) + 10x - (05(100+300) Vs(+) = losin (100++30°) + 1 sin (100+-60) = 101-60 - 1 130 = 10.00005 [-6057 =) Vs(+)= 10.00005 Sin(100+ +29,43) Vc (t)= 1 (1(+).dt = - 1 cos (100+ +30)

V_c(t) = 1 sin (100+-60°)