





than chart est fitt dt If we replace + with ++nT we get JESCHANT) f(++NT) dt Since f is periodic we have that f(++NoT) = f(+) STE-SCH+NT) J(+) dt = e-SNT STEST J(+) dt 6) ] (qi+)) = Sest g(+) d+ = Sest g(+) d+ + Sest g(+) d+ + ... 4) = S (n+1)T = st f(t) dt From a we have that the state of the state o Thus, We have 120 JT e-st flot = Sesni T-st flot C) If we assume sand T >0, such thatake st (1 we have that 2 (=5T) Stest float = 1-65 Stest float