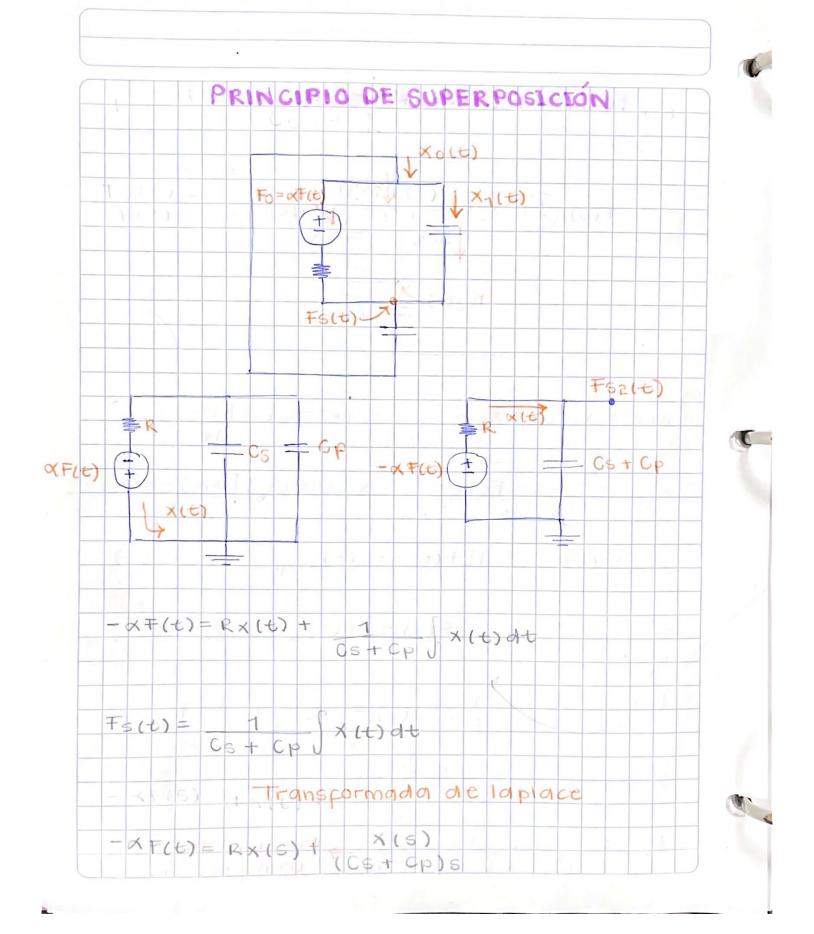
FUNCTION DE TRANSFERECIA X2(4) F(t) (+ VX7(E) F52(t) - Cp  $X(t) = X_1(t) + X_2(t)$ X(t) = Cpd[+(t)] X2(t) = F(t) - Fo(t) X,(t)= Csd [ +(t) - +s(t)] dt CodFs(t) \_ CsA[F(t)-Fs(t)], F(t)-Fs(t) dt Ops Fs(s) = Oss[F(s) - Fs(s)] + F(s) - Fs(s) (Cps + Css + 1) Fs(s) = (Css + 1) Fs  $Ts(s) = \frac{\left(CsS + \frac{1}{R}\right)Fs}{\left(Cps + CsS + \frac{1}{R}\right)}$ FS(5) = ((CSR)S +7 ) Funcion de FS (CPR + CSR)S + 1 transferen transferencia



(Cs+cp) 5 (x(s) X(s) (Cs + Cp)s +s(s)= x (S) Fs(s) = ((cs+ cp)s() R(Cs+(p) 5 +7) x(5) TES -x (Cs+Cp)s F5(5) x(s)(Cstep)s (R(Cs+Cp)s+1)x(s)((Cp+cs)6) Fs(s) R(Cs+cp)s+7 FS F62(8)= XF(S) R(CS+Cp)S+ FS(S) = F6,(S) + F52(S) (CSRS+1) F(S) - x F(S) RICP+CS)S+1 C6R6 +1- X F5(5) = R (Cp + Cs) 5 + 7

Estabilidad en lazo abierto. R(CS+CP)S+1=0d en Lazo Abierto  $\lambda = -\frac{1}{R(CS+Cp)}$ 106 Reako El sistema es estable si 2 <0 + (p) R(OS+CP) = 1(R(CS+CP))2-410)(1) 2(0) 511 El sistema tiene una respuesta inestable 7112 = 00 porque Error en estado Estacionario e(5) = lim 5 F(S) FIST lim 570 e(t)-XV=0.25 V.