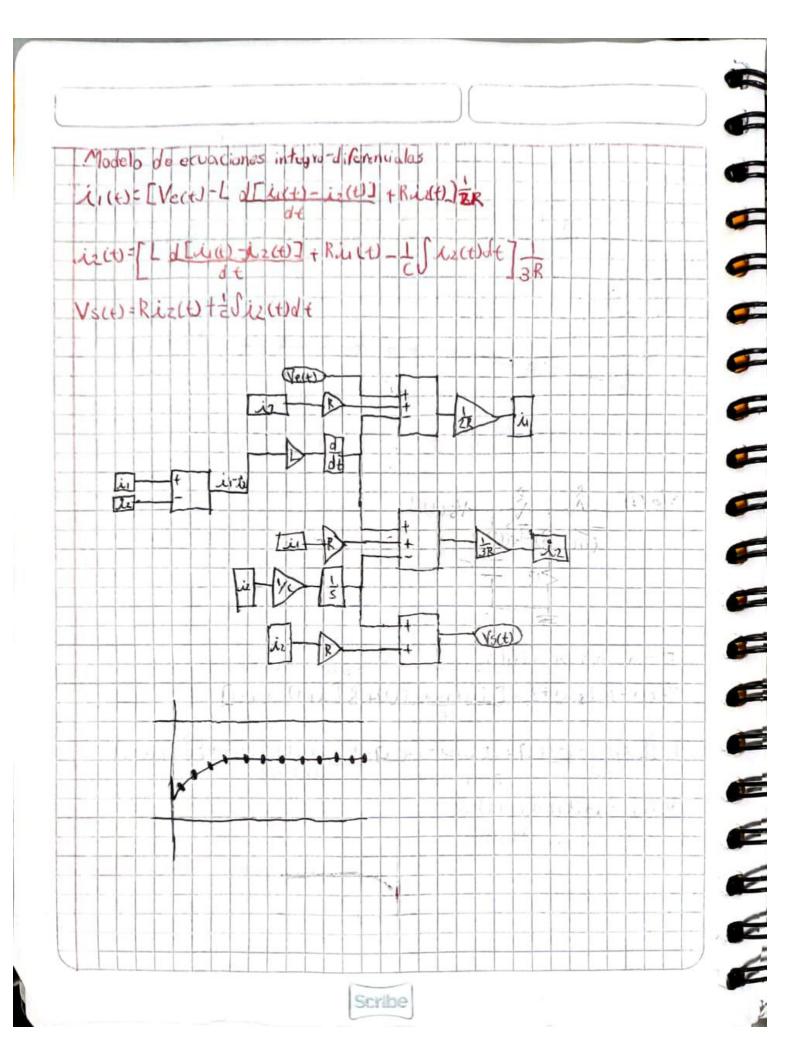
Estabilidad en lazo abjerto - Calcular los polos de la Función de transferencia VS(S) = CLRS2+(CR2+L)S+R Ve(J) 3CLRS2+(5CR2+L)S+ZR den = [3xCXLXR, 5xCXRXXZ+L,ZXR] L = np. roots (den) -> Fprint: Las vaices son [L[0]] y [L[1]] El sistema presenta una respuesta estable y sobreamortiguada 2=-3666662.36 e(t) = 1/2V 22 -25.790 transitorio estacionario Error en estado estacionario ecs) = lim s Vecs) VS(S) Ve (5) 500 CLR 52+ (CR2+L) 5+R 3CLR 52+ (5CR2+L) 5+ZR = lim 5.1 5-20 = R/2R Vect)=IV e(t) = 1/2V Ve(s) = 1/s

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Velto VSCO BLUWPR Nota iNo debe haber terminos negativos Vecto = Rice+Ld[inco-inco] +R[in(6)-inc(0)] Ud Cis(t)-isct)]+RCin(t)-is(t)]=Riz(t)+Riz(t)+ESis(t)t V500= CSiz(4) de + Riz(4) Transformada de Lapla (e SIICS) - LSIZ(S) + RI(S) - RTZ(S) Vecs) = RII(S) + S[I(S)-Iz(S)] + R[I(S)-Iz(S)] LS[I(w)-I2(s)]+R/It(s)-I2(s)]=R/I2(5)+R/I2(s)+/I2(s) Vs(5)= R IZ(5) + IZ(5) Procedimiento algebraico I, (5) = 3 (RS+C|57+1 I2(S) = CLS2+BCRS+1 I7(5) CS(LS+R)

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Ve(s)=(LS+)R)(CLS2+3CRS+1)-(LS+R)Iz(s) LZSZ+ZLRS+RZ =[(LS+2R)(CLSZ+3CRS+1)-CSC(S+R)((S+R)] Izcs) C1253+3CLR52+LS+20LR52+6CR25+1R -CL253-2CLR52-CR25 - 5CR25 Ve(S) = 3CLR52+(5(R)+1)S+7R VS(S = CRS+1 IZCS) 3 OR 52+COCK 4W 3+2R + 155) (CRSTD(LSTR) = CLRSTCR2S+LS+R VS(S) - (LR52+(CR2+L)S+R Ve(S) - 3(LR52+(SCR2+L)S+2 num = [(4,7E-6)*(3.3E-3)*(3.3E3), (4.7E-6)*(3.3E3)
3.3E-3, 3.3E3 L=1.5E-3 R= 330 = 3.3E3 C=47E-3 = 47E-6

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