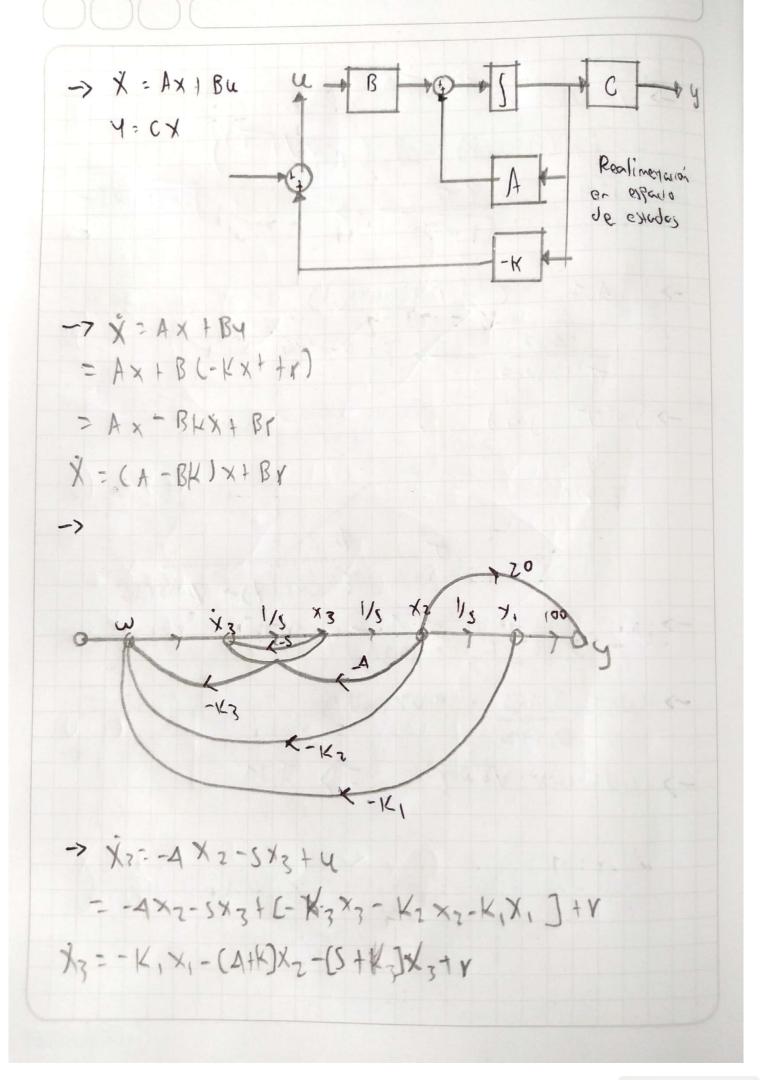
Torrea 5 0.5 = 95%. G (5): 20 (5+5) ts = 0, 74 Seg 5(54) (514) > X, = X, X2 = X, X3 = X, = D X3 = -5 X3 - 4 x2 + 4 & &c.1 -7 y (s) = 0.5 + 20st (00 x, (s) = 20 x, + 100x, -> 20x2+100x,=Y y= [100 70 0] f x1 | X2 | X2 |

-> 1- 05 = e-(\*TT/VI-4") X100"/. L> Ln (0,095) = ln (e-(EN-70)) - 213539= - そが -> で3539、1-32:4元 -> 5,5 A07 = E (T+5,5407) ₹ = √ S45407 - D ₹ = 0,5996 -> S= o + jw ) Mud F.Wn E= cos (\$) + \$= 53,16° -> ts= 4 -> 0= 4 = 5,405 -> Wn= 5,403 - 902 rad/s 0,5996 -> Wd= Wn VI- 72 = D 7,21



-7 [X1] = [O] [O] [X1] [O] / [X3] = [O] [O] [X2] + [O] / [X3] [-8(-4+K2) -(5+K3) [X3] [1] der (SI - (A-BK) = 53+(S+Kg)52+(A+K2)5+K1=d--> Usando MATLAB K1=413,43; K2=132,22; K3=10,9