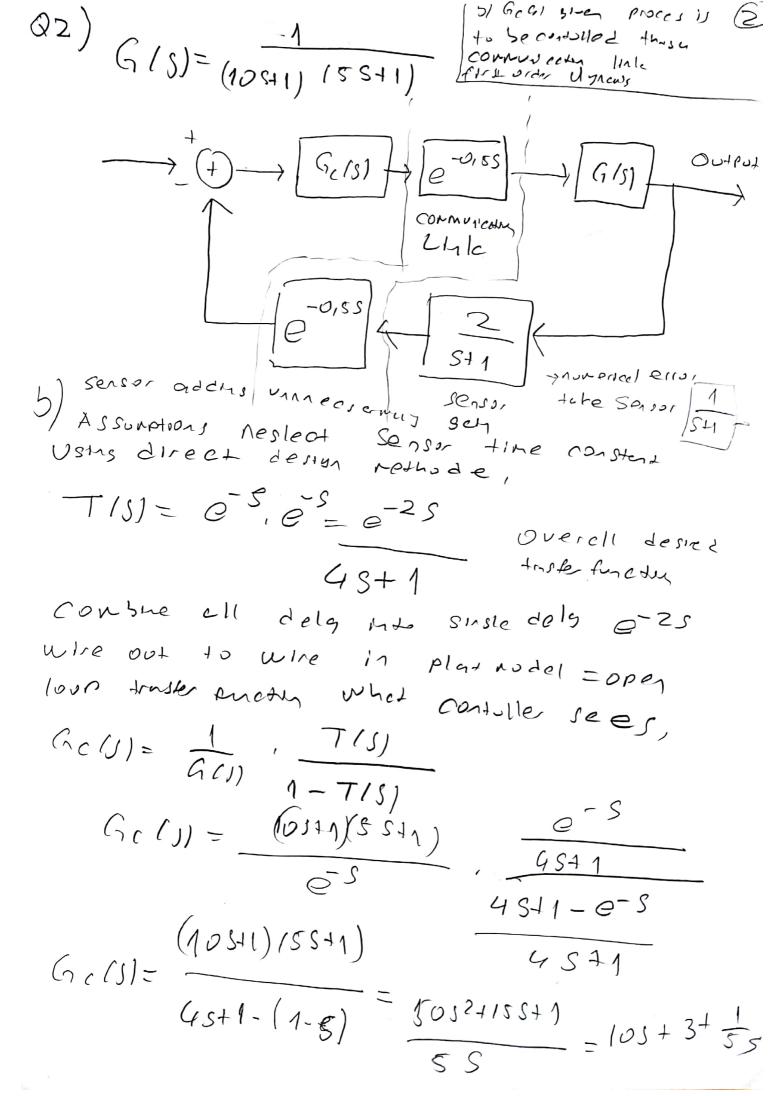
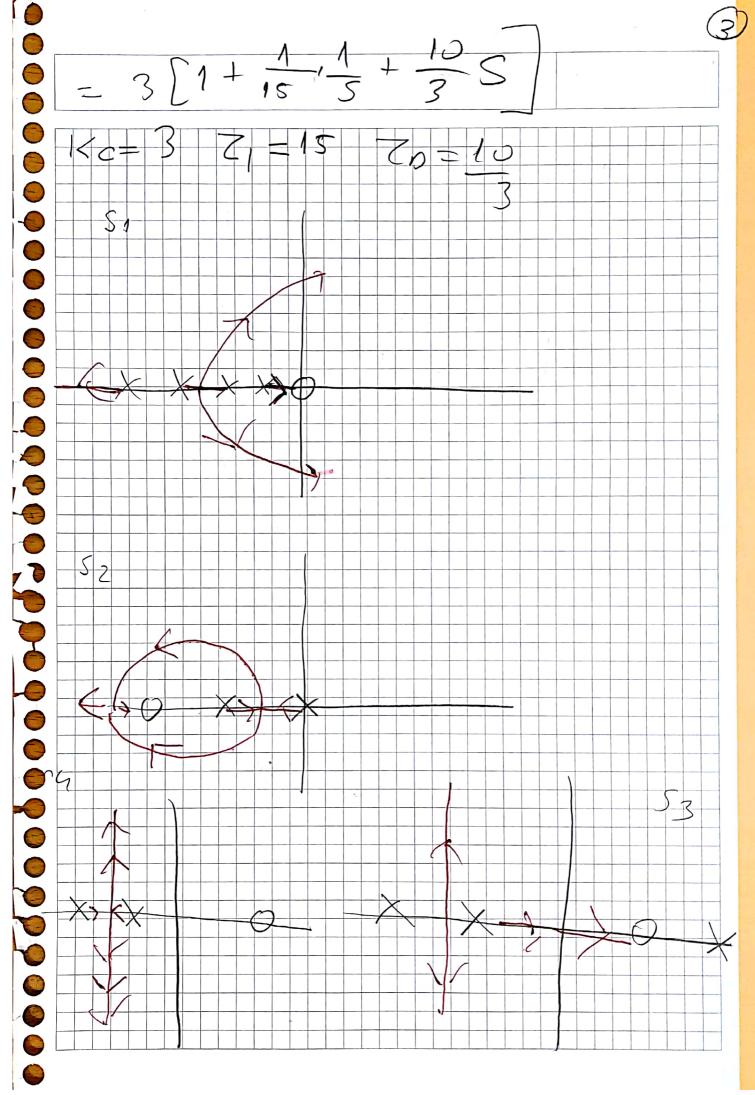
Q1) Port 1 Taylor Seller expasion (S) $G(S) = K(-0.1S+1) \qquad FOPDT$ (55+1X25+1 XO155+1) Largest Z=5 is dominant e-AS = 1-DS+H, AT eBS = 1+DS = 005 $1 - 0.118 = e^{-0.118}$ $\frac{1}{1 + 2s} = \frac{1}{e^{2s}} = e^{-28}$ $\frac{1}{1 + 0.15} = \frac{1}{e^{0.15}} = e^{-0.15}$ $1 + 0.15 = e^{-0.15}$ Total belief -2,65 G(S)= Ke-2,0S BONUS is how correct is approximation, (5S+1) Port 2 Recondly express FOODT approximedia il possible or not 9) 1< NO, no donoment pole (105+1/(105+1) b) No doninant single pole (6S+1) (SS+1) /S+1) c) $\frac{1}{(105+1)(5+1)^2}$ Yes, $\tau=10$ $\theta=2$ d) $\frac{1}{(10S^2+11S+1)}$ $\Rightarrow S_{z=-1}$ $S_{z=-1}$ $S_{z=1}$ (10052+10S+1) Couplex annuary pules 70 Scriletors response
No FOOTT Model Possible
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5) It shoul not have any Un Stoble Zeros Fish + Lalk Ible + un Szan 1552 12 m 1/1/1/14 then Syste does 132 0/1817 200 01 Jhe 101 the doe 11 Pho S 5 J200 Ziesie Wichols Fec 815/2 10 apply 1) 10+ Systen ju oxij Oscillations no Zvoile non 1) where to identify FOODT Modes be cluber inteschen Nodel 0.0 107 Step relpante se com? Step resne J Ce 1197652e Close that 15 FOD P on onny

