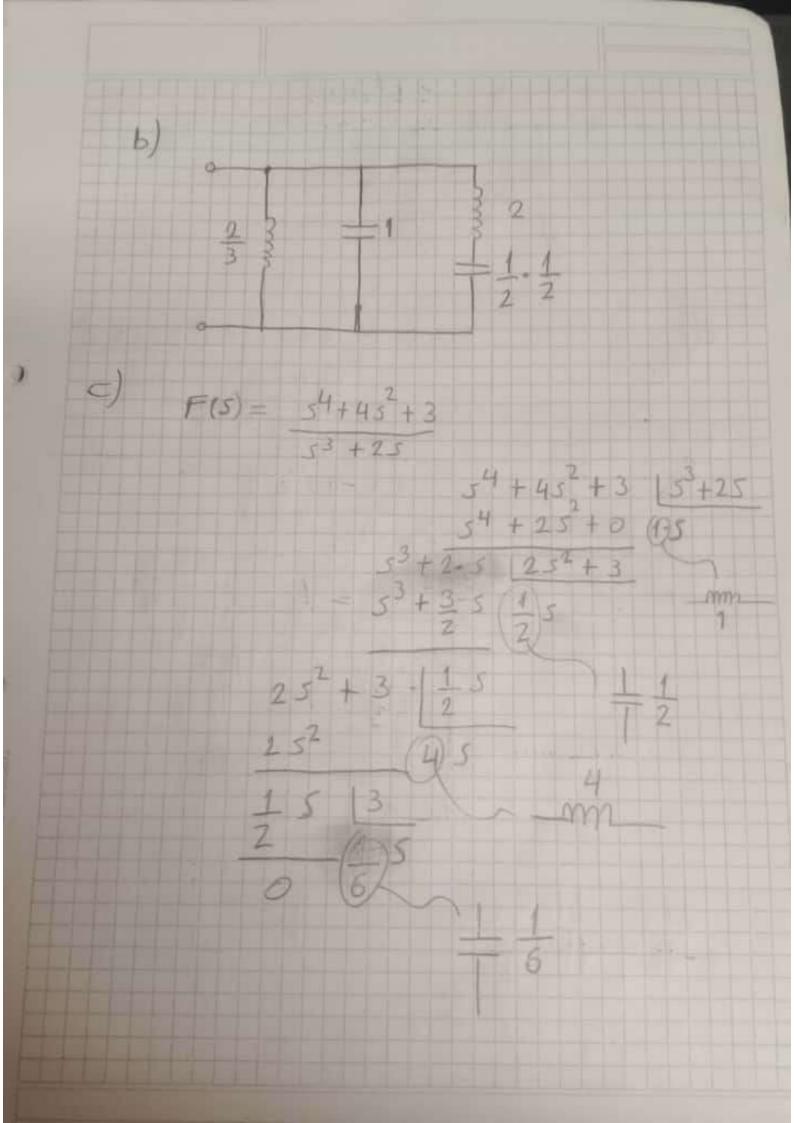
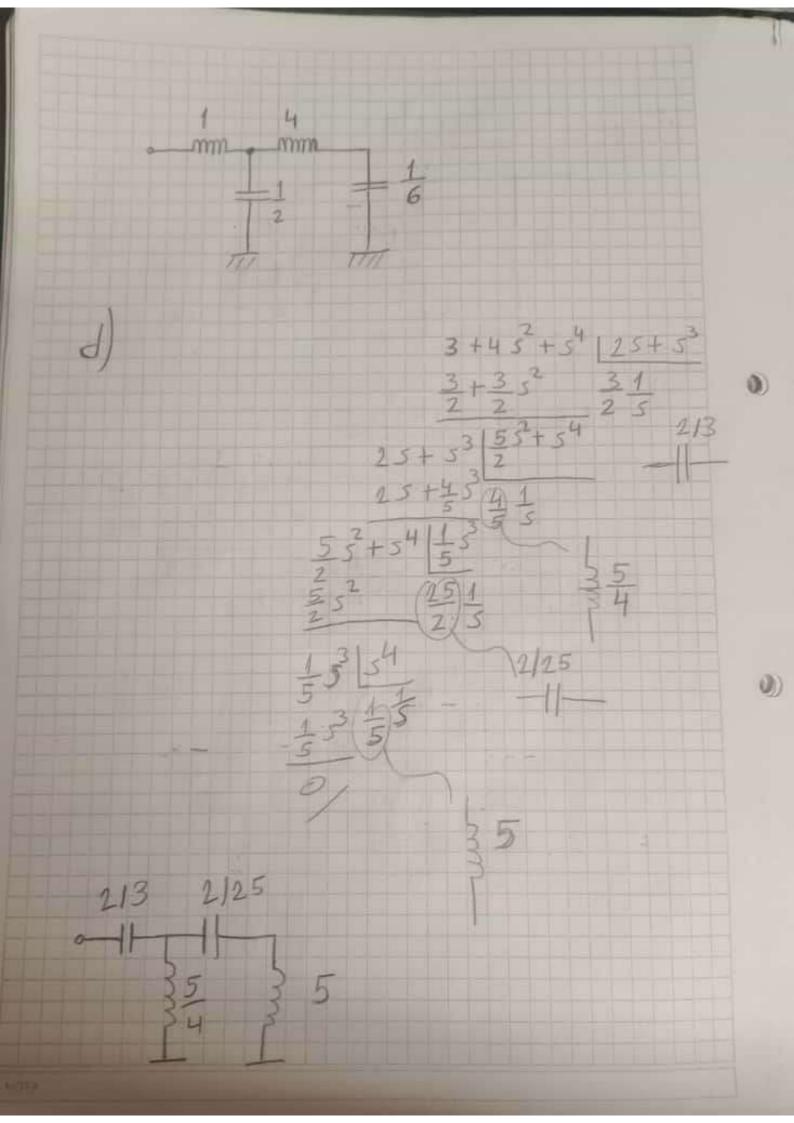
$F(s) = \frac{51+45+3}{5(5^2+2)}$ $K_{\phi} = \lim_{s \to 0} SF(s) = \frac{3}{2}$ $K\infty = \lim_{S \to \infty} \frac{F(S)}{S} = 1$ $2K_1 = \lim_{s \to -\omega_1^2} F(s) \cdot (s^2 + \omega_1^2)$ $\omega_1^2 = 2$ $2K_1 = \lim_{5 \to -2} \frac{5^4 + 45^2 + 3}{5^2} = \frac{1}{2}$





 $Y(5) = 5^5 + 185^3 + 485$ 654+4252+48 654+4252+48 55+1853+485 de o 48+4252+654 485+18 48 + 1852 + 54 1 185 + 5 2452 + 554 48 + 1053 2452 + 554

 $F_3(s) = Z_3(s) = 5s^4 + 24s^2 + 5^2(5s^2 + 24)$ $F_3(s) = 5s^2 + 24$ $F_3(s) = 5(s^2 + 8)$ Ko= lim 5. F3 = 24 Kao = lim F3(5) = 0 5→00 = $2K_1 = \lim_{z \to -8} F_3(z) (3^2 + 8) = 55^2 + 24$