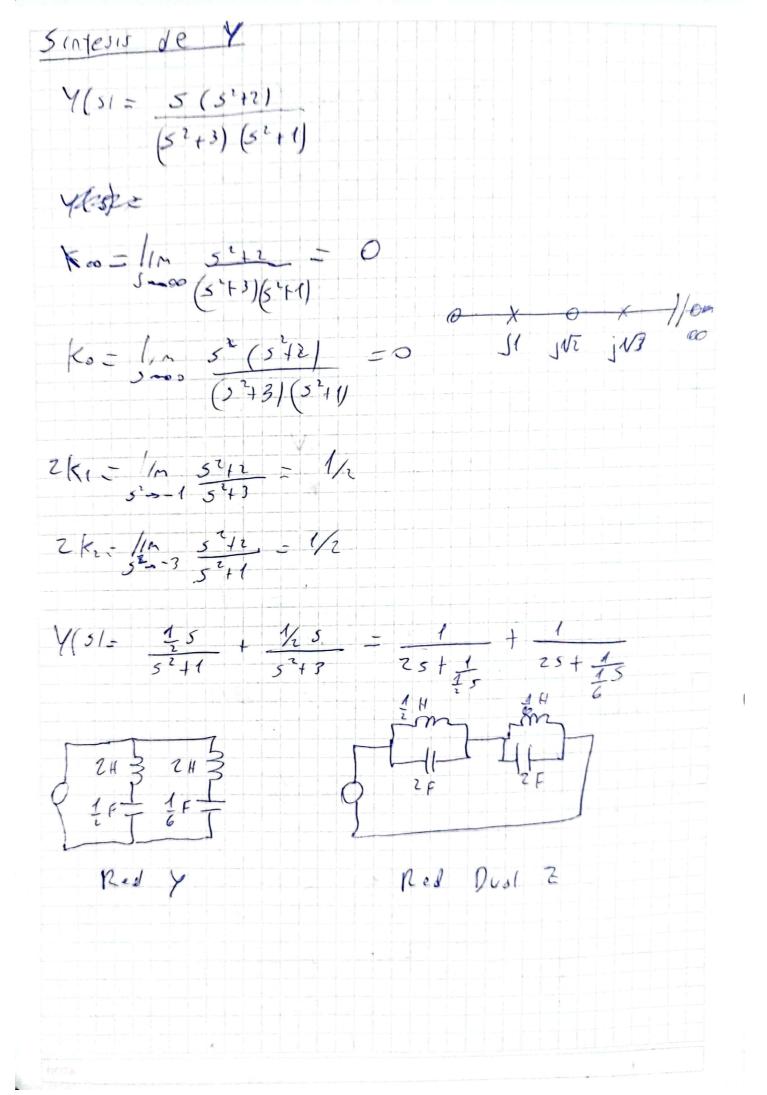
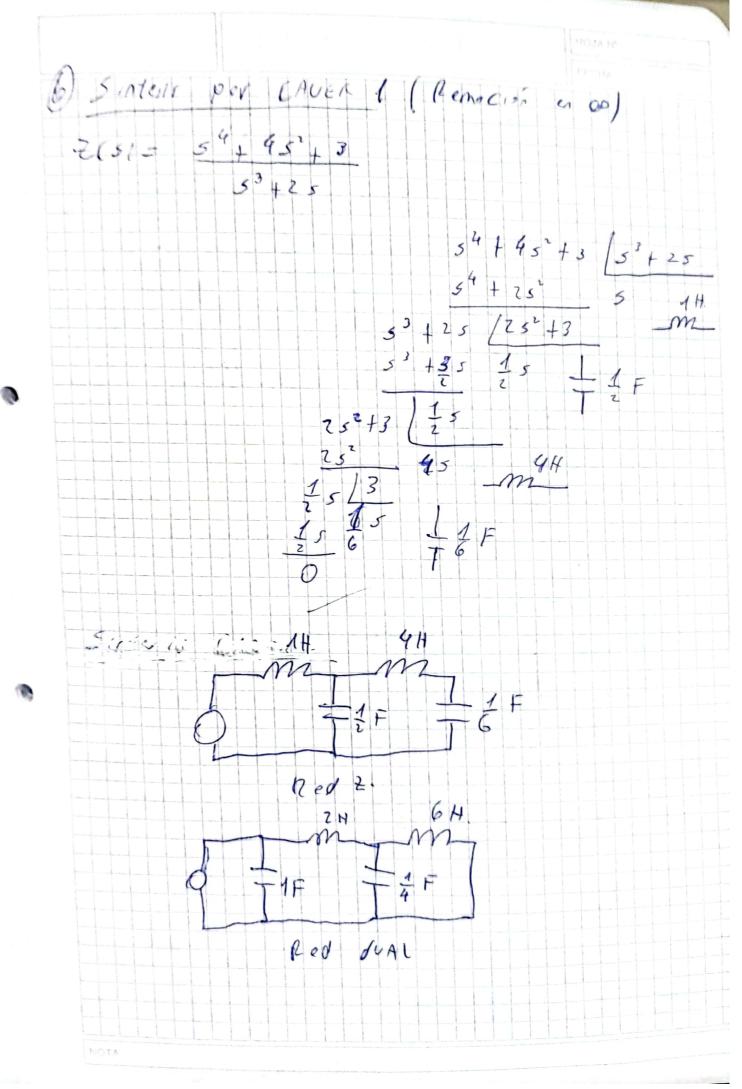
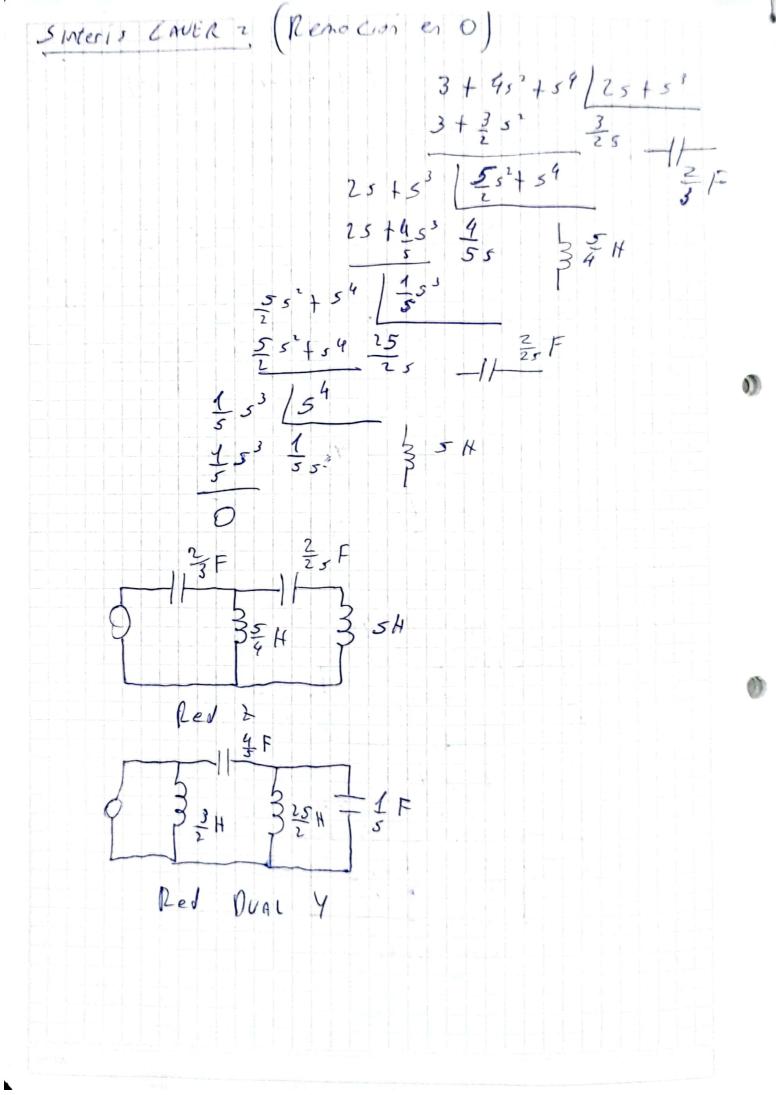
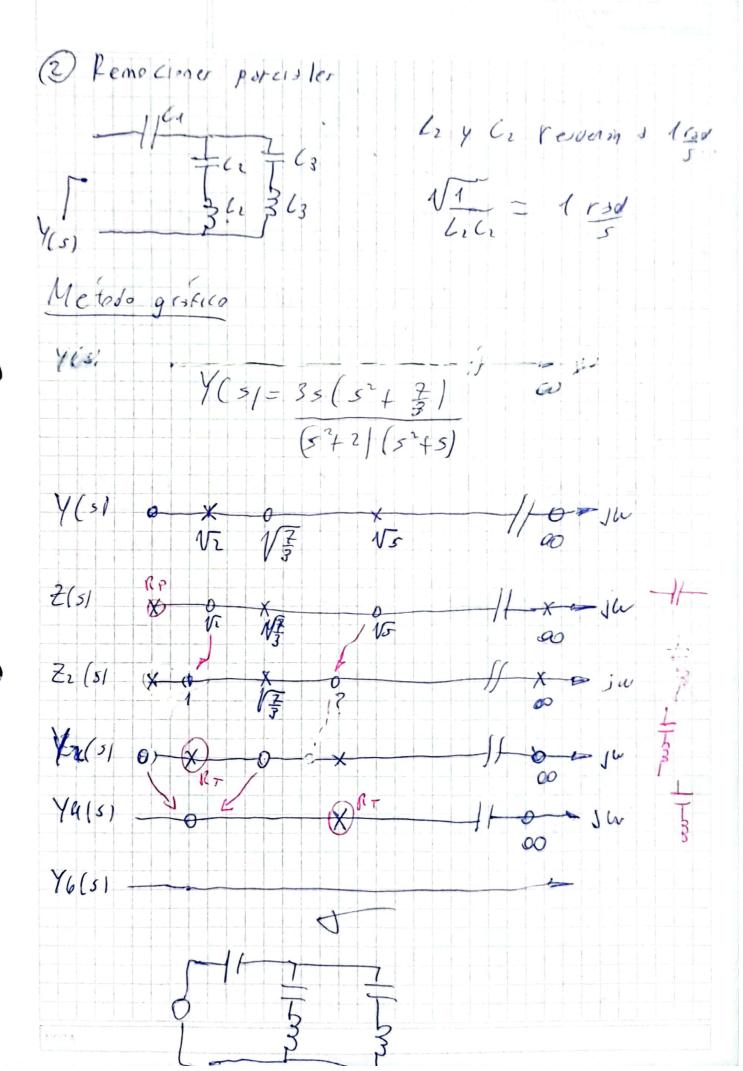
Tarea Semanal 10 Sintesis de funciones No disipativas $Z(51=(5^2+3)(5^2+1)$ $S(5^2+2)$ 6) SINTESIS FOSTER F(01= 5k0+ k0 + & 2k15 N Tangues / polos $K_{\infty} = \lim_{s \to \infty} F(s) = (5^{2}+3)(5^{2}+1) = 1$ $k_0 = \lim_{s \to 0} F(s) = (s^2 + 3)(s^2 + 1) = 3/2$ 2 Kz = 1(n (51+3)(5'+1)(5'+1) = 1/2 $\frac{2(s)}{2(s)} = \frac{1}{2(s)} + \frac{1}{2(s)} +$ Red DUAL









$$Y(s) = \frac{3s(s^2+\frac{3}{2})}{(s^2+2)(s^2+3)} = \frac{3s^3+7s}{5^4+7s^2+10}$$

$$\frac{|z_2(s)|}{|s=j|} = \left[\begin{array}{c} z \\ \overline{s} \end{array} \right] = 0$$

$$\left[\frac{5^4+75^4+10}{35^3+75}-\frac{K_0}{5}\right]_{5=1}^{5}$$

$$\frac{1+7+10}{-3j+7j} = \frac{1}{1} + \frac{4}{1} + \frac{4}{1} + \frac{4}{1} + \frac{1}{1} + \frac{1}$$

$$\frac{2}{3}(5) = \frac{5}{3} + \frac{4}{7} + \frac{7}{5} + \frac{10}{10} - \frac{1}{5} - \frac{1}{15}$$

$$z_{2}(s) = (s^{4}+7s^{2}+10)s = (3s^{3}+7s)$$

$$(3s^{3}+7s)s$$

Y4= Y2- 2k15 51+w2 2 Ki= lm . (35475)(541) (55+453+35)5 $\frac{2k_{1}-l_{1}n}{s^{2}+1} = \frac{3 + 4 + 7 + 3}{(s^{2}+1)} = \frac{3-7}{(3-1)}$ Y4-354752 25 55 + 453 + 35 52+1 74 = (35° + 75°) (5°+1) _ 25 (5°+1) (5°+3) 5 (5° 41) (5° 1 45° 135) 44 - 354 + 75 - 259 65° 5 5 + 45 3 + 35 Y4= 5452 = 52 (52+1) 55 + 453 +35 5 (54 + 452 + 3) (5 +1) (·s'+1) 8

