Torac 5 Oscar Eduardo Rodríguez M Cod: 20182005 139  $\chi(2) = \frac{2(2+1)(2+42+8)}{2(2+1)(2+42+8)}$ S + 1 + A + A | 1 | 1 - 3 × (5) / S=0 =5K1= 8 X8 188 +4818 8(8+1) (82+48+8) /500 8 = 1 H2= (S+1) Xcs/ /S=1 => (S+7) 252 + 852 + 45 +8 S (S#9) (52 +45+8 / S= => 2 (-1)3 + 8 (a)2 + 4(4) + 8 => -2 +8 -4 +8 => 70 :0 172 = -2 (-1) ((-1) + 4(-1) +8) (-1)(1-9+8) A = (5+2+22) XW)/5=-2-2 => (5+2+j2) 253+852+45+8 S (S+1) (53+45+8) ( S=-2-2)  $\Rightarrow \frac{2s^3 + 8s^2 + 4s + 8}{s(s+1)(s-2-j2)} / s = -2-2j$  $25^{3} = 2[-2-2]^{3} = 2[(-2)^{3}+3(-2)^{2}(-2)+3(-2)(-2)^{2}+(-2)^{3}$  $(2)^3 = (-1)^3 2^3)^3 = (-1)^3 2^3 )^3 = -18) = -8(-1)^3 = 81$ 253 = 2 [-8-;24+24+8] = 2 [76-76] =>253=32-32) =5 85=8(-2-2)=64)

$$= 5A = 25^{3} + 85^{2} + 45 + 8$$

$$= 5(5+1)(5+2-2j)$$

Jenominado-

$$S(S+7)(S+2-2j)=(-2-2j)(-2-2j+7)(-2-2j+2+2j)=24+8j$$

$$=3A = 32 + 24j = 8(4 + 3i) = 3 - j = 15 - 5i$$
 $24 + 8i = 8(3 + j) = 3 - j = 10$ 

$$X(s) = \frac{1}{5} + \frac{-2}{(3+1)} + \frac{7.5+0.5}{5+2+2} + \frac{1.5+0.5}{5+2+2}$$