fractiones parciales

$$X(5) = 25^{3} + 85^{2} + 45 + 8$$

$$5 (5+1)(5^{2} + 45 + 8) = \frac{k1}{5} + \frac{k2}{5+1} + k3$$

Para cada caso

$$= \frac{2(-1)^3 + 9(-1)^2 + 4(-1) + 9}{(-1)((-1)^2 + 4(-1) + 9)} = \frac{-2 + 8 - 4 + 8}{-(1 - 4) + 9} = \frac{-10}{5} = \frac{-2}{5}$$

$$A = (5+2+j2) \times (5)$$

$$\frac{5 = -2 - j^2}{(5+2+j^2)(25^3+85^2+45+8)}$$

$$= \frac{(5+1)(5^2+45+8)(5)}{(5+1)(5^2+45+8)(5)}$$

(5+2-J2)(5+1)(5) 5=2-J2

Por partes

$$25^{3} = 2(-2-)^{2})^{3}$$

$$= 2((-2)^{3} + 3(-2)^{2}(-)^{2}) + 3(-2)(-)^{2})^{2} + (-)^{2})^{3}$$

$$= (2((-2)^{3} -)^{2}(-)^{2} + 2(-)^{2})^{3})$$

$$= 2(-8 + 24 + 6j - 24j)$$

$$= 2(16-16j)$$

$$25^3 = 32 - 32j$$

$$\frac{-2+8-4+8}{-(1-4+8)} = \frac{-10}{5} = \frac{-2}{5}$$

$$(5+2+j2)$$
 (25^3+85^2+45+8) $(5+2+j2)$ (25^3+85^2+45+8) $(5+1)$ $(5+1)$ (5^2+45+8) (5) $(5+2+j2)$ $(5+2-j2)$ $(5+1)$ (5)

Numerador =
$$32 - 32 + 364 + 4(-2-32) + 8$$

= $32 - 32 + 364 - 38$
 $= 32 + 324$

$$= (-2 - 12) (-2 - 12 + 1)$$

$$= (-2 - 12 + 2 + 12)$$

$$= 24 + 18$$

$$A = \frac{32 + 124}{24 + 18} = \frac{8(4+1)3}{8(3+1)}$$

$$A = \underbrace{4+J^3}_{3+J}$$

$$A = \underbrace{15-5j}_{=0} = 1,5-95j$$

$$\chi(5) = \frac{1}{5} - \frac{2}{5+1} + \frac{1}{5} + \frac{1}{$$