Lista de Ejercicios para el tercer Departamental de Eurovenes Diferenciales

a) 
$$\int_{(5-4)^3(5-1)^3}^{1}$$
, b)  $\int_{(5^2+1)(5^2+6)}^{1}$ 

c) 
$$1^{-1}\left\{\frac{3}{5^2(5^2-9)}\right\}$$
, d)  $1^{-1}\left\{\frac{10}{5^4-16}\right\}$ , e)  $1^{-1}\left\{\frac{8k^3s}{(5^2+k^2)^3}\right\}$ 

e) 
$$y'' - 4y' + 4y = t^3 e^{2t}$$
,  $y(0) = 0$ ,  $y(0) = 0$ 

a) 
$$f(t) + \int_{0}^{t} (t-z) f(z) dz = t$$
 d)  $f(t) = (ast + \int_{0}^{t} e^{z} f(t-z) dz$   
b)  $f(t) = te^{t} + \int_{0}^{t} z f(t-z) dz$ 

b) fit) = 
$$te^{t} + \int_{0}^{t} \tau f(t-z)dz$$
 e)  $t-2f(t) = \int_{0}^{t} (e^{z} - e^{z}) f(t-z)dz$ 

c) 
$$f(t) + 2\int_0^t f(z) G_S(t-z) dz = 4e^t t Sent, f) f(t) = e^t + e^t \int_0^t e^t f(z) dz$$