23-01-22

Esparhospiero Madnhacita - Mpdodos Medarns Niródaos TM472

$$\Rightarrow$$
 (52+5-2) $Y = (5+1)y(0)+y'(0)+F(5)$

$$=) \gamma = \frac{(5+2)y(0)+y'(0)}{(5+5-2)} + \frac{F(5)}{(5^2+5-2)}$$

$$F(s) = \int_{0}^{\infty} e^{-st} e^{-t} dt = \frac{1}{s+1}$$

Apa
$$Y = \frac{(5+1)-7+8}{5^2+5-2} + \frac{\frac{1}{5+1}}{(5^2+5-2)} = >$$

$$\gamma = \frac{7s+15}{(5^2+5-2)} + \frac{1}{(5^2+5-2)(5+1)}$$

OENA 2

a)
$$Z(x) = \int_{-\infty}^{+\infty} F(x-k) dk = \int_{0}^{+\infty} F(x) \cdot F(x-k) dk + \int_{0}^{+\infty} F(x) \cdot F(x-k) dk$$

$$\int_{x}^{200} f(x-k) dk = \int_{x}^{200} (x-k-2) dk =$$

$$\int_{0}^{t} (x^{2} + kx - 2x + k + 1) dk = \left[kx^{2} - \frac{k^{2}}{2} x + 2kx + \frac{k^{2}}{2} + k \right]_{0}^{t} =$$

Enopieurs, n 600 aprim pas eiver non currylish à pa

B)
$$L(z(t)^2)(s) = \int_{0}^{2\pi} e^{-st} (zt^2 - \frac{t\pi}{2}t + 28) dt = 0$$

$$L(z(t))(s) = \frac{95^2 + 28}{25^3}$$

: Lavis alaginhonor

$$\int (7+2\frac{21}{2})e^{-st}dt = \frac{1}{2}\int (2+2-3)e^{-3t}dt$$

$$\int (2+2-3)e^{-3t}dt = -\frac{1}{5}\int +e^{-st}dt$$

$$\int -\frac{1}{5}\int +e^{-3t}dt = -\frac{1}{5}\int +e^{-st}dt$$

$$\int \frac{e^{-st}}{s} dt, \quad 9 \approx \omega \quad v = st \rightarrow \frac{dv}{dt} = -3 \rightarrow dt = -\frac{1}{5}du$$

$$= -\frac{1}{5}e^{-st}$$

$$-\frac{1}{5} \int e^{-st} dt = \frac{1}{5}e^{-st}$$

$$= -\frac{1}{5}e^{-st} - \frac{1}{5}e^{-st}$$

$$= -\frac{1}{5}$$

11. 5 (1. 10) (1) , VI "801" W. 00)

1111 10 12 11 11 11 11 1

1. 1 18 0 (1 2012) 2 x x 11 1 c (2 c 2 c 2)