TAREA Transformadas de Laplace a) $f(t) = \{ t \ 0 \le t < 1 \}$ = E + (4-36-E)U(E-D) d) sent U(t-II) = sen(t - = + =) = sentcos = + senz cost e) e-t cos(2t)

2. Inversor

a)
$$\frac{1}{9s-1} = \frac{1}{5-\frac{1}{9}} = \frac{1}{9} \left(\frac{1}{5-\frac{1}{9}} \right)$$
 $\int_{-1}^{-1} \left\{ \frac{1}{9} \left(\frac{1}{5-\frac{1}{9}} \right) \right\} = \int_{-1}^{-1} \left\{ \frac{1}{3-\frac{1}{9}} \right\} = \int_{-1}^{-1} \left\{ \frac{1}{9} \left(\frac{1}{5-\frac{1}{9}} \right) \right\} = \int_{-1}^{-1} \left\{ \frac{1}{5-\frac{1}{9}} \right\} = \int_{-1}^{-1} \left\{ \frac{1}{5-$

TAREA V

2)
$$y''' - y'' + y' - y = 0$$
; $y(0) = 1$, $y'(0) = y''(0) = 0$
 $x''(0) + xy(0) - xy'(0) - y''(0) - x^2y(0) + xy(0)$
 $x''(0) + xy(0) - y(0) - y(0) = 0$
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