

Resolver el problema de valor inicial para:

$$2y' + ty = 2 \wedge y(0) = 1$$

Solución:

$$2y' + ty = 2 \wedge y(0) = 1$$

$\equiv$

$$y' + \frac{t}{2}y = 1 \wedge y(0) = 1$$

$$\equiv \left\langle \mu(t) = e^{\frac{t^2}{4}} \right\rangle$$

$$[e^{\frac{t^2}{4}}y]' = e^{\frac{t^2}{4}}$$

$\equiv$

$$y = e^{-\frac{t^2}{4}} \int_0^t e^{\frac{s^2}{4}} ds + e^{-\frac{t^2}{4}}$$