2.14abe*

torsdag 25 januari 2024

$$\frac{Q}{\int e^{2t} Q(t)} dt = \begin{cases} se^{2t} dt, t^{20} = x \\ 0, t^{20} \end{cases}$$

$$\Rightarrow \left(\int_{0}^{t} e^{2t} dt\right) O(t) = \left[-\frac{2t}{2} \int_{0}^{t} O(t)\right]$$

$$=\frac{e^{2t}-1}{2}\cdot O(t)$$

$$\int (t-1) O(t) dt = \begin{cases} 5t-1 dt, t > 0 \\ 0, t < 0 \end{cases}$$

$$= 2 \left(\frac{1}{2} (1 - 1) \right) 0 (1 + 1) d + 2 \left(\frac{1}{2} - \frac{1}{2} - \frac{1}{2} \right) 0 (1 + 1) d + 2 \left(\frac{1}{2} - \frac{1}{2} - \frac{1}{2} \right) 0 (1 + 1) d + 2 \left(\frac{1}{2} - \frac{1}{2} -$$

e)
$$Sin't = cost$$

 $Sin + Q(t-T) + S(t-1) dt$

$$\int sin + O(+-\pi) dt = \begin{cases} \int sin + , + \times \pi \\ o, + < \pi \end{cases}$$

$$\Rightarrow \left(\int_{\mathbb{T}}^{+} S: n + \mathcal{U}\right) \mathcal{G}(t-\mathbb{T}) = \left[-\cos t\right]^{+} \mathcal{O}(t-\mathbb{T}) =$$

$$(-(200 + -1) + 0 + 0 + 0)$$