Séance 11 Encercices

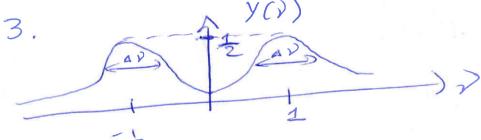
2.
$$\int_{-\infty}^{+\infty} e^{-t^{2}} dt = \int_{-\infty}^{+\infty} e^{-t^{2}} (t-t) dt$$

$$f(t) = \int_{-\infty}^{+\infty} e^{-t^{2}} dt = \int_{-\infty}^{+\infty}$$

$$\frac{2}{1 \cdot X(x) = \frac{1}{2} S(x) - 1} + \frac{1}{2} S(x) + 1}$$

2.
$$\mathcal{J}(r) = \mathcal{Z}(r) w(r)$$

 $\mathcal{J}(r) = \mathcal{Z}(r) * w(r)$
 $\mathcal{J}(r) = \frac{1}{2} w(r-1) + \frac{1}{2} w(r+1)$



$$\left(\frac{\Delta \mathcal{V}}{2}\right)^2 = \frac{\ln 2}{11}$$

$$\Delta \mathcal{V} = 2\sqrt{\frac{\ln 2}{11}}$$

3.
$$y(t) = \begin{cases} 1 + \frac{1}{2} \\ -\frac{1}{2} \\ -\frac{1}{2} \end{cases} = \begin{cases} -\frac{1}{2} \\ -\frac{1}{2} \\ -\frac{1}{2} \end{cases} = \begin{cases} -\frac{1}{2} \\ -\frac{1}{2} \\ -\frac{1}{2} \end{cases} = \begin{cases} -\frac{1}{2} \\ -\frac{1}{2} \\ -\frac{1}{2} \\ -\frac{1}{2} \end{cases} = \begin{cases} -\frac{1}{2} \\ -\frac{1}{2} \\$$

Donc y(t) $\frac{e^{-tt(t-t_2)^2}}{tt} \rightarrow 1$ $\frac{e^{-tt(t-t_2)^2}}{asymptote} \rightarrow 1$ $\frac{e^{-tt}(t-t_2)^2}{asymptote} \rightarrow 1$ $e^{-tt}(t-t_2)^2 \rightarrow 1$

exercice 2

1.
$$H(c) = \int_{-\infty}^{+\infty} R(H) e^{-2i\pi t} dt = \int_{-\infty}^{+\infty} R(H) dt$$
 $H(c) = \int_{-\infty}^{+\infty} e^{-\frac{t^2}{2\sqrt{11}}} dt = \sqrt{2\pi x} \frac{1}{2\sqrt{11}} = 1$
 $H(c) = \alpha = 1$

2. $h(c) = \int_{-\infty}^{+\infty} e^{-\frac{t^2}{2\sqrt{11}}} dt = \sqrt{2\pi x} \frac{1}{2\sqrt{11}} = 1$
 $= \sqrt{2\pi} \times \frac{1}{$