



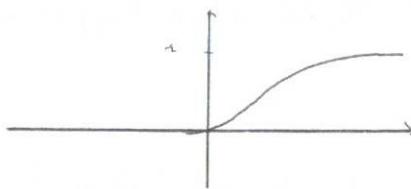




## ANNEXE

Ex. (23) :

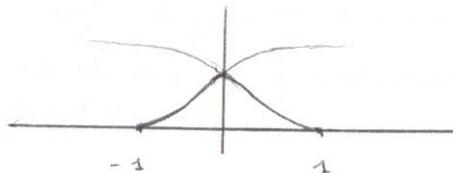
1)



$$\theta(x) = \begin{cases} e^{-\frac{|x|}{2x}} & \text{si } x > 0 \\ 0 & \text{si } x \leq 0 \end{cases}$$

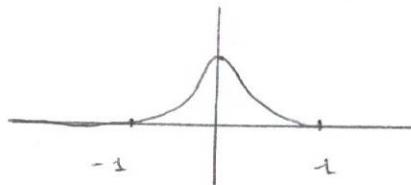
On a  $\theta \in C^\infty(\mathbb{R})$

2)



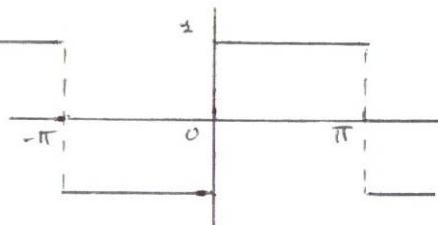
$$\theta(1+x) \theta(1-x)$$

4)



$$\psi(x) = \frac{\theta(1+x) \theta(1-x)}{\int_{\mathbb{R}} \theta(1+t) \theta(1-t) dt}$$

Ex. (34) :



## Références :

- [BP] Briane, Pujos, Théorie de l'intégration
- [AF] Amara, Nathanael, Analyse complexe
- [BMP] Bach.., Objets d'agregation (2<sup>e</sup> éd.)
- [Ru] Rudin, Analyse réelle et complexe (3<sup>e</sup> éd.)
- [Fa] Faraut, Calcul intégral