a)

$(t-1)\,\theta(t-1)$ $\begin{cases} t-1 \ , \ t>1 \\ 0 \ , \ t<1 \end{cases}$
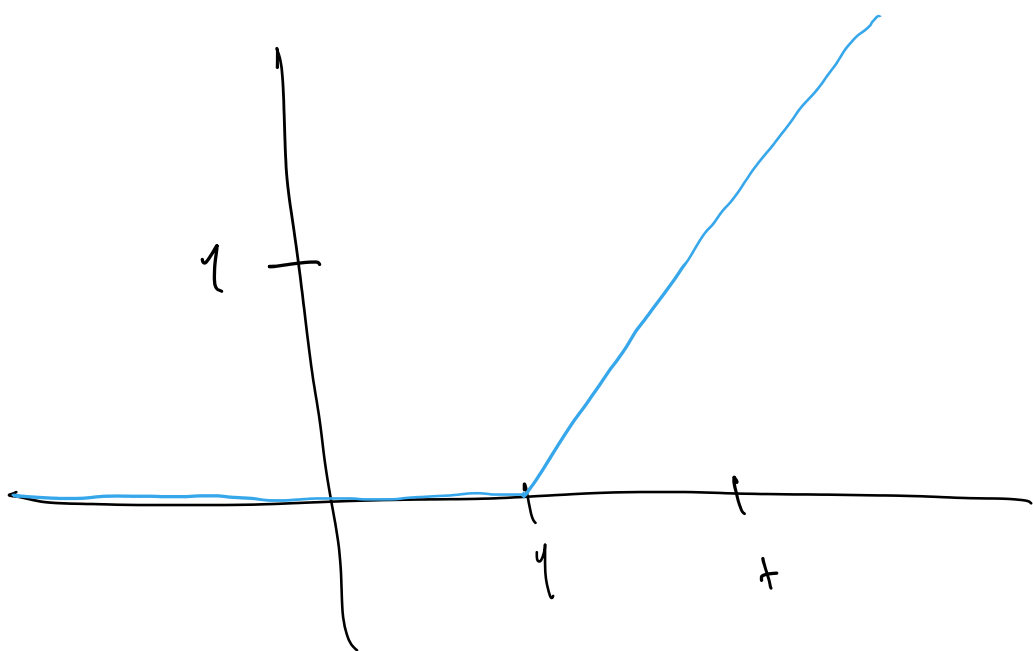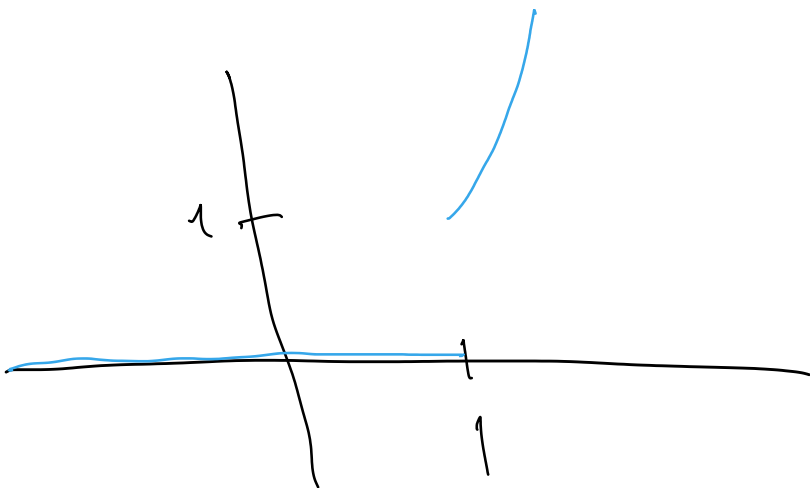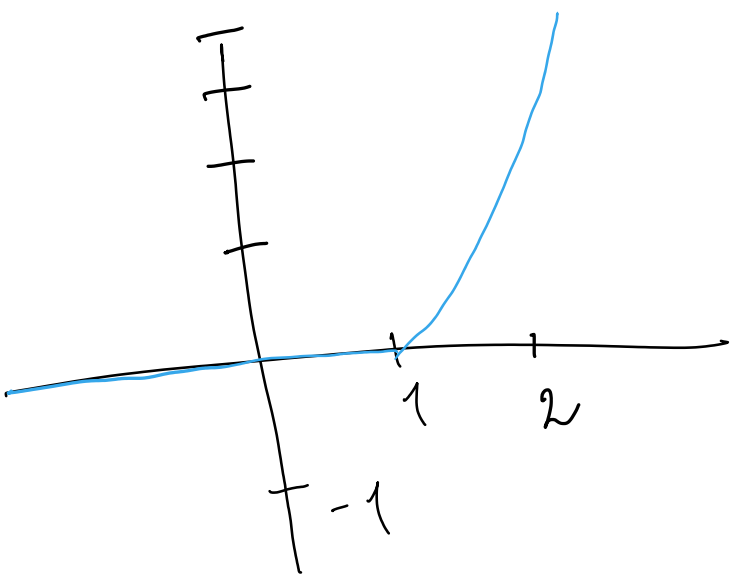

b)
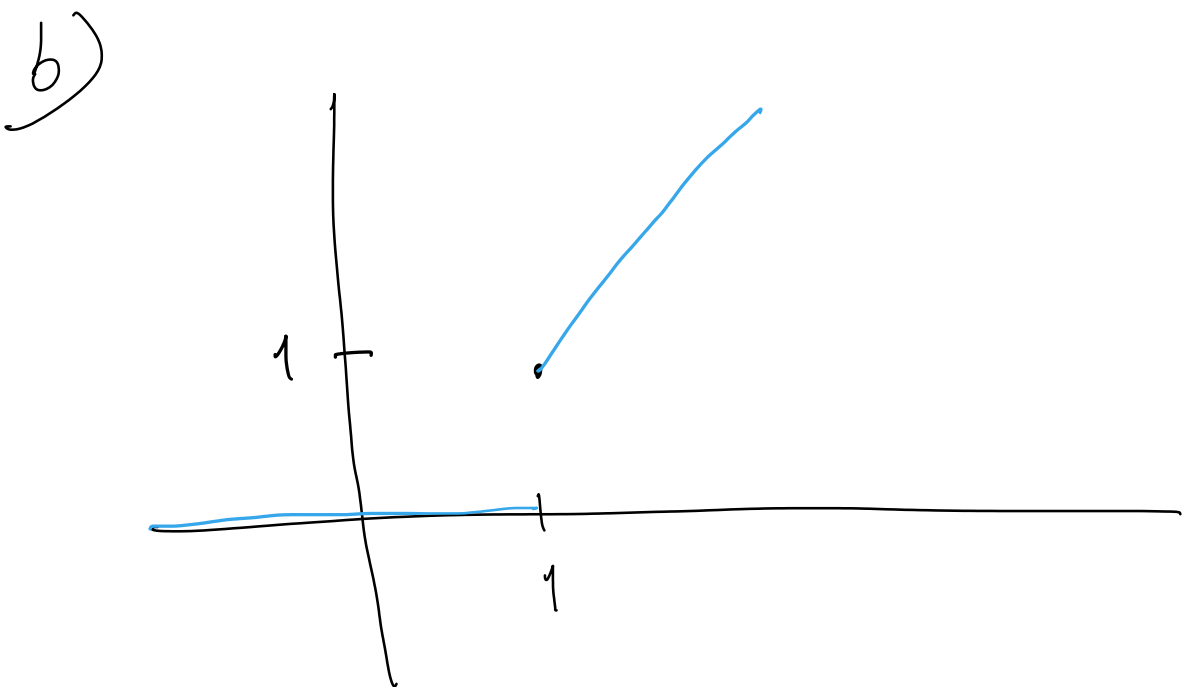
c) $t^2\,\theta(t-1)$ $\begin{cases} t^2 \ , \ t>1 \\ 0 \ , \ t<1 \end{cases}$

d)

$(t^2-1)\,\theta(t-1)$

e)

$(t-1)^2\,\theta(t-1)$