Exercises

[1N5]Prerequisites:[1DM]. Verify that the function  $\varphi: \mathbb{R} \to \mathbb{R}$ 

 $\varphi(x) = \begin{cases} e^{-1/x} & \text{se } x > 0\\ 0 & \text{se } x \le 0 \end{cases}$ 

Solution 1. [1N6]

(also seen in [1DM]) is not analytic.