

Exercises

E19.1 [1N7] Note: Exercise 2, written exam March 2010.

Let $I \subseteq \mathbb{R}$ be a not-empty open interval. Let $f : I \rightarrow \mathbb{R}$ be of class C^∞ , and such that $\forall x \in I, \forall k \geq 0$ we have $f^{(k)}(x) \geq 0$. Prove that f is analytic.

[[1N8]]

Solution 1. [1N9]

See also the exercise [1F9].

[[1NB]]