

Exercises

16.22 [1DZ] Prerequisites: [1DM]. Find an example of function $f : \mathbb{R} \rightarrow \mathbb{R}$ with $f \in C^\infty$ and such that, setting $A = \{x : f(x) = 0\}$, the point 0 will be the only point of accumulation of A , i.e. $D(A) = \{0\}$. Compare this example with Prop. 6.8.4 in the notes [3]; and with the example [1NQ].

Solution 1. [1FO]