

Exercises

E14.c.6 [166] Let be given $f : [a, b] \rightarrow \mathbb{R}$ and a decomposition of $[a, b]$ into intervals $I_1 = [a, t_1], I_2 = [t_1, t_2], \dots, I_n = [t_{n-1}, b]$ such that the restriction of f on each I_k is Lipschitz of constant C . Show that f is Lipschitz of constant C .

Similarly for Hölder functions.