

**ABSTRACT.** A complete (intrinsic) solution to the Rivlin problem is given in the space  $C_2[a, b]$  of continuous functions on  $[a, b]$  with the  $L_2$ -norm. A brief survey is also given of what is known in the spaces  $C_p[a, b]$ ,  $1 \leq p \leq \infty$ ,  $p \neq 2$ . In each of these spaces only partial results are known.