

## QUERIES

36. *Proposed by G. Petruska, ELTE, Analizis 1. Tanszek  
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Suppose that  $f(x,y)$  is bounded on  $0 \leq x \leq 1$ ,  $0 \leq y \leq 1$  and that  $f(x,y)$  is measurable for each fixed  $x$  and Baire 1 for each fixed  $y$ . Is  $\phi(x) = \int_0^1 f(x,y)dy$  Baire 1 as well? (Assuming the continuum hypothesis, the answer is negative for the case of Baire 2 sections).