

**UM 101: QUIZ 7**  
**Dec. 22, 2022**

**Duration.** 15 minutes

**Name.**

**Maximum score.** 10 points

**Tutorial section.**

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**Problem.** Suppose  $f : (a, b) \rightarrow \mathbb{R}$  is a function and  $c \in (a, b)$ . Express quantitatively (i.e., using quantifiers such as  $\varepsilon$ ,  $\delta$ , etc.) the statement “ $f$  is **not** differentiable at  $c$ ”. Your answer must be stated as a **single sentence** containing all the relevant quantifiers in the correct order!