

# Homework 15 of Introduction to Analysis (I), Honor Class

AM15 黃琦翔 111652028

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1. (a) For  $y_0 \in [c, d]$  and any  $\varepsilon > 0$ , we know that for  $x \in [a, b]$ , there exists  $\delta_x > 0$  s.t.  $\|(x, y) - (x, y_0)\| = (y - y_0)^2 < \delta$ ,  $|f(x, y) - f(x, y_0)| < \varepsilon$ .