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Marianna Csornyei* (csornyei@math.uchicago.edu). *Tangents of curves and differentiability of functions.*

One of the classical theorems of Lebesgue tells us that Lipschitz functions on the real line are differentiable almost everywhere. We study possible generalisations of this theorem and some interesting geometric corollaries, in finite and infinite dimensional spaces. The talk is based on joint results with David Bate and Bobby Wilson. (Received August 10, 2015)