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Continuously differentiable curves detect limits of functions of two variables.

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Summary: We present a result of Rosenthal, which shows that if a two-variable function has the same limit when evaluated over the graph of every convex function (in one variable or the other) with continuous first derivative, then the two-variable function is continuous. We give a new method of constructing the “testing curves” by using complex splines.

Classification: I65 I55

Keywords: two-variable functions; continuous differentiable curves; splines

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