Problem 1 (due on Monday, February 14)

Let $f:(0,\inf y) = 0 \ x \in \mathbb{R}$ be a continuously differentiable function such that $\left(\lim_{x\to y} (f(x)+2f'(x))=1\right)$. Prove that $\dim_y f'(x)=0$.

We received a solution from Ashton Keith. Ashton's ideas are similar to our second solution, but his solution lacks sufficient rigor. For detailed solution see the following link Solution.

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