Prove that if $\{f\_{n}:R\rightarrow R\}$ is a sequence of continuously differentiable functions such that the sequence of derivatives $\{f\_{n}^{'}:R\rightarrow R\}$ is uniformly convergent and the sequence $\{f\_{n}\left(0\right)\}$ is also convergent, then $\{f\_{n}:R\rightarrow R\}$ is pointwise convergent. Is the assumption that the sequence $\{f\_{n}\left(0\right)\}$ converges necessary?