



Why

Is some scaled form of a differentiable function differentiable?

Result

Proposition 1. *Suppose $I \subset \mathbf{R}$ is an interval and $f : I \rightarrow \mathbf{R}$ is differentiable. Then given any real number $\lambda \in \mathbf{R}$, the function λg is a differentiable functions whose derivative is $\lambda g'$.*

