



Why

Is the sum of two differentiable functions differentiable? What is the derivative of the function which is their sum?

Result

Proposition 1. *Suppose $I \subset \mathbf{R}$ is an interval and $f, g : I \rightarrow \mathbf{R}$ are differentiable. Then $f + g$ is a differentiable function whose derivative is $f' + g'$*

