Exercises

E16.2 [1cv] Let $I=(a,b)\subset\mathbb{R}$ be an open interval. Let $f:I\to\mathbb{R}$ be

differentiable: show that
$$f'$$
 is continuous, if and only if for every

Solution 1. [1CW]

 $f'(x) = \lim_{(s,t)\to(x,x),s\neq t} \frac{f(t)-f(s)}{t-s}.$