

Section 4.5

2. This formula expresses in Leibnitz's notation the following consequence of the Chain rule: If $f: \mathbb{R} \rightarrow \mathbb{R}$, $u: \mathbb{R} \rightarrow \mathbb{R}$, and $s: \mathbb{R} \rightarrow \mathbb{R}$ are differentiable, then $f \circ u \circ s: \mathbb{R} \rightarrow \mathbb{R}$ is differentiable with $(f \circ u \circ s)'(r) = f'(u(s(r)))u'(s(r))s'(r)$ for all x .