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L'Hospital Type Rules for Monotonicity, with Applications

Abstract:

Let f and g be differentiable functions on an interval (a, b), and let the derivative g' be positive on (a, b). The main result of the paper implies that, if $f(a+) = g(a+) = 0$ and $\dfrac{f'}{g'}$ is increasing on (a, b), then

$\dfrac{f}{g}$ is increasing on (a, b) .

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