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L'Hospital Type Rules for Monotonicity, with **Applications**

RGMIA

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Abstract: Let f and g be differentiable functions on an interval (a,b), and let the

derivative g^{\prime} 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

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

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