

1966 J. *Journal of the American Statistical Association* 61: 1301-1314.

- 101 to determine by computing $\lim_{x \rightarrow 0} \frac{f(x)}{g(x)}$ and the limit exists then we can use L'Hôpital's rule and find
 102 $\lim_{x \rightarrow 0} \frac{f(x)}{g(x)} = \lim_{x \rightarrow 0} \frac{f'(x)}{g'(x)}$ and if $\lim_{x \rightarrow 0} \frac{f'(x)}{g'(x)}$ exists then $\lim_{x \rightarrow 0} \frac{f(x)}{g(x)}$ exists and is equal to it.
 103 Thus, to be able to use L'Hôpital's rule we need to know that $\lim_{x \rightarrow 0} \frac{f'(x)}{g'(x)}$ exists. We can check by the theorem:
 104 Suppose f and g are functions defined on an open interval (a, b) and c is a point in (a, b) . Suppose f and g are continuous at c and $g'(c) \neq 0$. Then $\lim_{x \rightarrow c} \frac{f(x)}{g(x)} = \frac{f(c)}{g(c)}$.
 105 Therefore, if $\lim_{x \rightarrow c} \frac{f'(x)}{g'(x)}$ exists then $\lim_{x \rightarrow c} \frac{f(x)}{g(x)} = \frac{f(c)}{g(c)}$.
 106 Therefore, if $\lim_{x \rightarrow c} \frac{f'(x)}{g'(x)}$ exists then $\lim_{x \rightarrow c} \frac{f(x)}{g(x)} = \frac{f(c)}{g(c)}$.
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 119 Therefore, if $\lim_{x \rightarrow c} \frac{f'(x)}{g'(x)}$ exists then $\lim_{x \rightarrow c} \frac{f(x)}{g(x)} = \frac{f(c)}{g(c)}$.
 120 Therefore, if $\lim_{x \rightarrow c} \frac{f'(x)}{g'(x)}$ exists then $\lim_{x \rightarrow c} \frac{f(x)}{g(x)} = \frac{f(c)}{g(c)}$.

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