

Mathematical Analysis

1. The function $f(x)$ is continuous on the interval $[a, b]$ if and only if it satisfies the following conditions:

(a) $f(x)$ is defined for every x in $[a, b]$.

(b) $f(x)$ has no jump discontinuities.

(c) $f(x)$ has no removable discontinuities.

(d) $f(x)$ has no essential discontinuities.

2. The function $f(x)$ is differentiable at $x = a$ if and only if the limit

$\lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$ exists.

3. The function $f(x)$ is differentiable on the interval (a, b) if and only if it is differentiable at every point in (a, b) .

4. The function $f(x)$ is differentiable at $x = a$ if and only if the limit

$\lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$ exists and is finite.

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