



Sep 2-8:17 AM

definition of continuity at a point

$f(x)$ is continuous at $x = c$ if

1. $\lim_{x \rightarrow c} f(x)$ exists (remember this means left hand = right hand)
2. $f(c)$ exists
3. the answers from #1 = the answers from #2

$$\lim_{x \rightarrow c} f(x) = f(c)$$

definition of continuity on an interval

$f(x)$ is continuous on the interval (a,b) if $f(x)$ is continuous at every point in the interval

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types of discontinuities
hole (removable discontinuity)

jump discontinuity

infinite discontinuity

oscillating discontinuity

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continuous on the domain

intermediate value theorem for continuous functions

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