

Source: [\[KBe2020math401index\]](#)

1 | Reading

Link

- #define continuity at a point

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

- To ensure that it is defined, connected on both sides, and doesn't have a random point
 - To check for continuity, just check for $f(a)$, $\lim_{x \rightarrow a} f(x)$, and that they are equal
 - Rational functions
 - Are continuous on their domains
 - Basically anywhere they are defined
 - Discontinuity types
 - Removable discontinuities
 - Hole in the graph
 - infinite is continuity
 - asymptote
 - jump discontinuity
 - Continuity from the right and left
 - Same as definition of continuous, but replace the limit with right and left hand limits respectively
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