Source: KBe2020math401index

1 | **Reading**

Link

- #define continuity at a point
$$\lim_{x \to a} f(x) = f(a)$$
  - To ensure that it is defined, connected on both sides, and doesn't have a random point
  - To check for continuity, just check for $f(a)$, $\lim_{x \to a} f(x)$, 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
    - asymtote
  - jump discontinuity
- Continuity from the right and left
  - Same as definition of continuous, but replace the limit with right and left hand limits respectively
    Link
