**Summary 5: Continuity**

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| **Continuity graphically:** If you can draw the graph of a function without lifting up the pencil, or if the graph has no holes or gaps, the function is continuous.  **Definition of Continuity:** A function is continuous at if   1. exists 2. exists 3. (i) = (ii), i.e.   **Types of Discontinuity:** If a function is not continuous at , then the discontinuity is called:   1. **Removable:** exists but is not equal to 2. **Jump:**  and both exist but are unequa**l** 3. **Essential:** otherwise | **Examples**: |