MA2002 Midterm Cheatsheets

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September 29, 2022

1 Random Results

Suppose $\lim_{x\to a}\frac{f(x)}{g(x)}=L$ and $\lim_{x\to a}g(x)=0$, then $\lim_{x\to a}f(x)=0$. Otherwise, we can use product limit laws to create a contradiction.

- 2 Week 2
- 3 Week 4
- 3.1 Definition of Limits as $x \to \pm \infty$