Complex Analysis

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Idea 1. Proving non-analyticity. Show different limit in two diff. directions. Often useful to consider $h \in \mathbb{R}$ and $h \in i\mathbb{R}$.

Prop 1. Often convenient to regard holomorphic definition as

$$f(z_0 + h) = f(z_0) + ah + o(h)$$

 $for\ some\ a.$