Contents

0.1 Maclaurin series

A Taylor series around $c = 0$.

$f(x) = \sum_{i=0}^{\infty}(x-c)^i \frac{f^i(c)}{i!}$

$f(x) = \sum_{i=0}^{\infty}(x)^i \frac{f^i(0)}{i!}$

For example, for:

$f(x) = (1-x)^{-1}$

$f^i(0) = i!$

So, around $x = 0$:

$f(x) = \sum_{i=0}^{\infty}(x)^i$