

$$\begin{aligned}
 f(z) &= \frac{1}{2\pi i} \oint_C \sum_{n=0}^{\infty} \frac{(z-a)^n}{(z_0-a)^{n+1}} f(z_0) \, dz_0 \\
 &= \sum_{n=0}^{\infty} \frac{(z-a)^n}{n!} \frac{n!}{2\pi i} \oint_C \frac{f(z_0)}{(z_0-a)^{n+1}} \, dz_0 \\
 &= \sum_{n=0}^{\infty} \frac{(z-a)^n}{n!} f^{(n)}(a)
 \end{aligned}$$

type1cm (bb=0 0 189 95)

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mathpazo (bb=0 0 187 88)

cmbright (bb=0 0 185 95)

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mathptmx (bb=0 0 169 86)

concrete (bb=0 0 190 96)

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pxfonts (bb=0 0 173 96)

txfonts (bb=0 0 166 93)