

$$f(t) = \frac{1}{16}$$

$$f(t) = \frac{1$$

$$f(t) = \sum_{n=0}^{\infty} C_n e^{nt}$$

$$C_{n} = \frac{1}{2\pi} \int_{0}^{2\pi} f(t) e^{-nit} dt$$

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$$\int_{0}^{2\pi} (x_{t} + iy_{t}) (\cos(-nt) + ix \sin(-nt)) dt$$

$$= \int_{0}^{2\pi} (x_{t} + iy_{t}) (\cos t - i \sin t) dt$$

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