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$$\int_{-\infty}^{\infty} f(x) = \int_{-\infty}^{\infty} (x - \pi) \int_{0}^{\infty} f(x + \pi) \int_{-\infty}^{\infty} (x + \pi) \int_{0}^{\infty} dx = \frac{1}{\pi} \left[\int_{0}^{\infty} (x - \pi) \int_{0}^{\infty} f(x + \pi) \int_{0}^{\infty} dx = \frac{1}{\pi} \left[\int_{0}^{\infty} (x - \pi) \int_{0}^{\infty} f(x + \pi) \int_{0}^{\infty} dx = \frac{1}{\pi} \left[\int_{0}^{\infty} (x - \pi) \int_{0}^{\infty} f(x + \pi) \int_{0}^{\infty} dx = \frac{1}{\pi} \left[\int_{0}^{\infty} (x - \pi) \int_{0}^{\infty} f(x + \pi) \int_{0}^{$$

 $\alpha_n = \frac{(-1)^n - 1}{n^2 \pi c} = 0$

$$b_{n} = \frac{P}{\pi c} \left[\int_{0}^{\pi} (x - \pi) \sin(nx) + \int_{-\pi}^{\pi} (x + \pi) \sin(nx) \right]$$

$$= \frac{P}{\pi c} \left[\int_{0}^{\pi} x \sin(nx) - \pi \int_{0}^{\pi} \sin(nx) + \int_{-\pi}^{\pi} x \sin(nx) + \pi \int_{0}^{\pi} \sin(nx) \right]$$

$$= \frac{P}{\pi c} \left[\int_{0}^{\pi} x \sin(nx) - \pi \int_{0}^{\pi} \sin(nx) + \int_{-\pi}^{\pi} \cos(nx) - \frac{(-\tau)^{n} \pi}{n} \right]$$

$$= \frac{P}{\pi c} \left[\int_{0}^{\pi} x \sin(nx) - \frac{\cos(nx)}{n} \right] + \int_{0}^{\pi} \cos(nx) - \frac{(-\tau)^{n} \pi}{n}$$

$$= \int_{-\pi}^{\pi} x \sin(nx) - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n}$$

$$= \int_{-\pi}^{\pi} x \sin(nx) - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n}$$

$$= \int_{-\pi}^{\pi} x \cos(nx) - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n}$$

$$= \int_{-\pi}^{\pi} x \cos(nx) - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n} \pi}{n}$$

$$= \int_{-\pi}^{\pi} x \cos(nx) - \frac{(-\tau)^{n} \pi}{n} - \frac{(-\tau)^{n}$$

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3)
$$C_n = \frac{\rho}{2\pi} \int_{-\pi}^{\pi} f(x) \cdot e^{inx} dx$$

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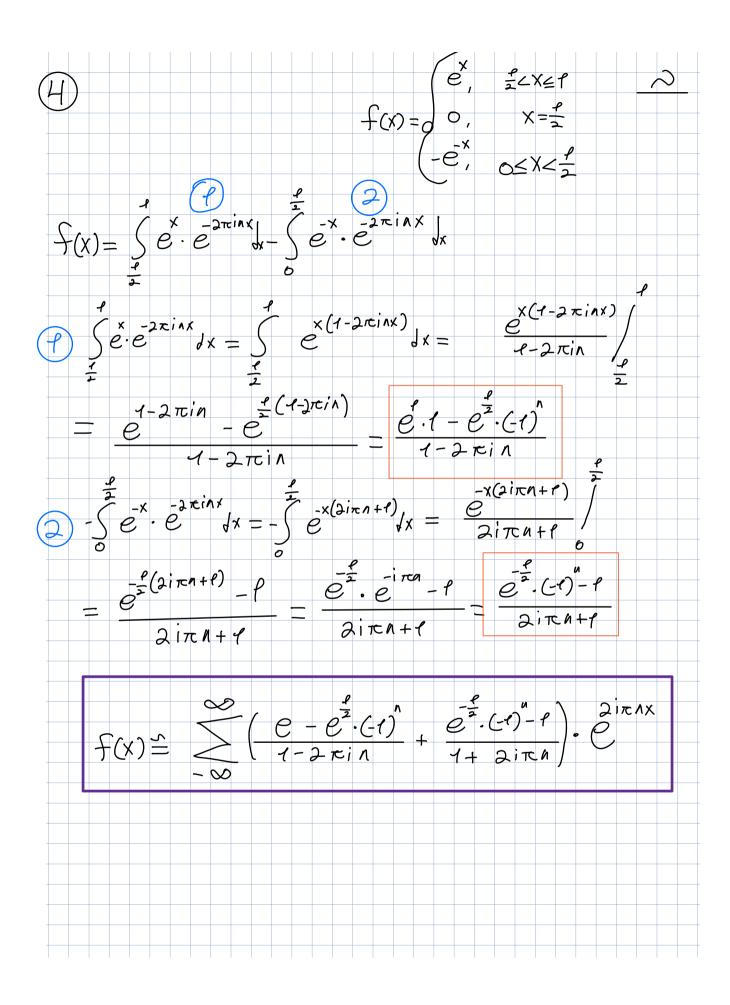
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$$h = \frac{1}{50} \qquad \begin{cases} \vdots & \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots \end{cases} \end{cases} \xrightarrow{i} \frac{1}{50} \cdot e^{\frac{-i}{50}}$$

$$\frac{1}{50} \qquad \begin{cases} \frac{1}{50} \cdot e^{\frac{-i}{50}} \\ \frac{1}{50} \cdot e^{\frac{-i}{50}} \cdot e^{\frac{-i}{50}} \\ \frac{1}{50} \cdot e^{$$