

$$\int_{-\infty}^{\infty} f(x) \cdot \left(\int_{-\infty}^{\infty} f(x) e^{-ixx} dx \right) dx = \int_{-\infty}^{\infty} dx \int_{-\infty}^{\infty} f(x) \int_{-\infty}^{\infty} e^{-ix} dx$$

$$\int_{-\infty}^{\infty} dx \int_{-\infty}^{\infty} f(x) \int_{-\infty}^{\infty} e^{-ix} dx = \int_{-\infty}^{\infty} e^{-ix} \int_{-\infty}^{\infty} e^$$

$$F(k) = \lim_{n \to \infty} \int_{-\pi}^{\pi} e^{2\pi i n n} dn$$

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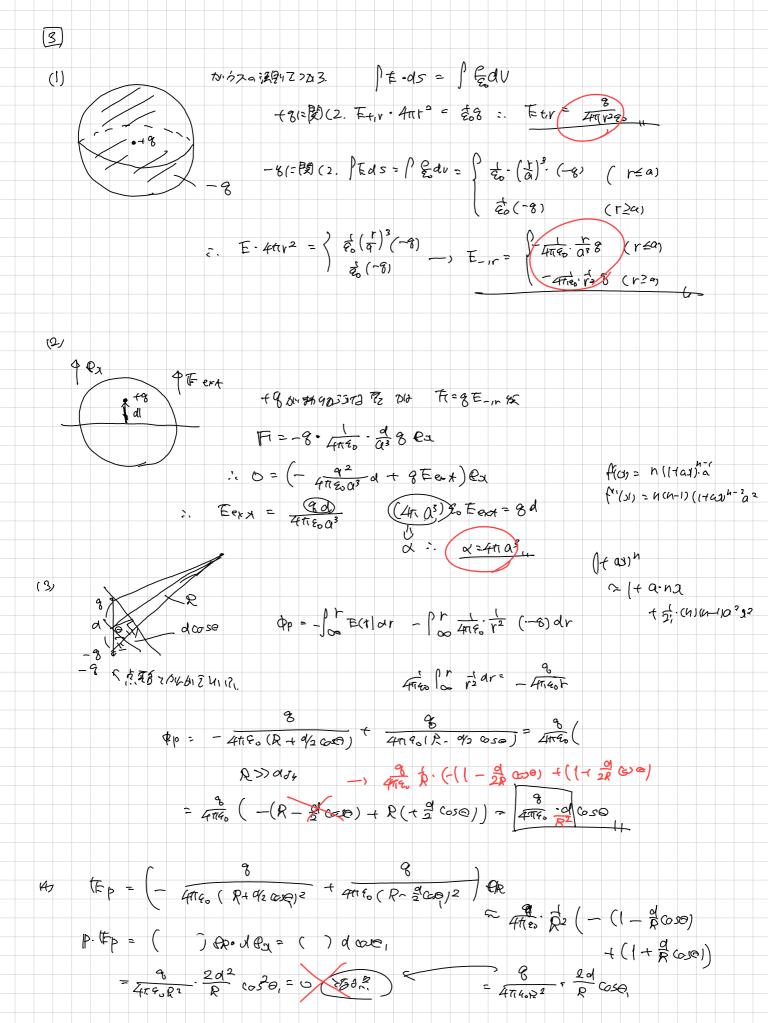
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