$$f(x) = \alpha_0 + \sum_{n=1}^{\infty} \alpha_n \cos nx + bn \sin n$$

$$\alpha_0 = \frac{1}{2L} \int_{0}^{\infty} f(x) dx = \frac{1}{2n} \left( \int_{0}^{\infty} \frac{1}{2} \int_{0}^{\infty} \frac{1}{2} \right) \approx \frac{3\pi}{4}$$

$$\alpha_0 = \frac{1}{L} \int_{0}^{\infty} \frac{1}{2} \int_{0}^{\infty} \frac{1}$$

Folia) = 
$$\frac{1}{2\pi} \int_{0}^{\pi} \left( \frac{1}{2} w^{2} \right) dv$$

$$= \frac{1}{2\pi} \int_{0}^{\pi} \left( \frac{1}{2} w^{2} - 1 \right) \int_{0}^{\pi} \frac{1}{2\pi} \left( \frac{1}{2} w^{2} - 1 \right) \int_{0}^{\pi} \frac{1}{2\pi} \left( \frac{1}{2} w^{2} - 1 \right) dv$$