$$\int_{\mathbb{R}^{2}} \left(n \right) = \sum_{n=0}^{\infty} \left(n P_{n}(n) \right)$$

$$\frac{P_n \mid f^{2}}{P_n \mid P_n > 2} \cdot \frac{2^{n-1}}{2^{n-1}} \int_{\mathbb{R}} P_n(x) f(x) dx$$

$$a) = \frac{1}{2} \int_{-\infty}^{\infty} \frac{dx}{2} dx = \frac{1}{2}$$

$$a = \frac{1}{2} \int_{-\infty}^{\infty} \frac{dx}{2} dx = \frac{1}{2} \int_{-$$

$$n: \mathbb{Z}_2^n \longrightarrow \mathbb{Z}_2^n$$

$$\left(\frac{3}{2}\int_{-\pi}^{\pi}\pi\cos\left(\frac{\pi x}{2}\right)dx = \frac{3}{\pi^{2}}\left(\pi x \sin\left(\frac{\pi x}{2}\right) + 2\cos\left(\frac{\pi x}{2}\right)\right) = 0$$

$$||f|| = \sqrt{\int_{1}^{1} ds^{2} \left(\frac{dx}{2}\right) \int_{x}^{x}} = \sqrt{\frac{\sin(ax) + dx}{2\pi}} = \frac{1}{2\pi}$$

$$h(x) = \frac{2}{\pi} + \frac{10\pi^2 - 120}{11^3} \left(\frac{3}{2} - x^2 - \frac{1}{2} \right)$$

$$\begin{aligned} & \frac{1}{2} \left(\frac{1}{2} \right) \cdot \frac{2}{\pi} & \frac{1}{2} \left(\frac{1}{2} \times \frac{1}{2} - \frac{1}{2} \right) \\ & \frac{1}{2} \left(\frac{1}{2} \right) \cdot \frac{1}{2} \cdot \frac{1}{2} \left(\frac{1}{2} \times \frac{1}{2} - \frac{1}{2} \right) \\ & \frac{1}{2} \left(\frac{1}{2} \right) \cdot \frac{1}{2} \cdot \frac{1}{2} \left(\frac{1}{2} \times \frac{1}{2} - \frac{1}{2} \right) \cdot \frac{1}{2} \cdot \frac{1}{2} \\ & \frac{1}{2} \left(\frac{1}{2} \cdot \frac{1}{2} - \frac{1}{2} \right) \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \right) \cdot \frac{1}{2} \cdot \frac{1}{2} \\ & \frac{1}{2} \left(\frac{1}{2} \cdot \frac{1}{2} - \frac{1}{2} \right) \cdot \frac{1}{2} \cdot \frac{1}{2}$$

4 Lapoerre Polyromil $ef(g) = \int_{e^{-x}} \int_{a} (x) g(x) dx$ $f_{\bullet} = \int_{1}^{2} x^{2} dx + \int_{3}^{2} x^{3}$ $m_2 = \int_{-\infty}^{\infty} \frac{1}{n_1} \frac{1}{n_2} \frac{1}{n_$ uz. fr. - (fr. 11.) v. - (fr. 12.) vr. - (mr. 1 mr.) $u_{y} \cdot f \cdot \frac{\langle f_{3}, u_{2} \rangle}{\langle f_{3}, u_{3} \rangle} = \frac{\langle f_{3}, u_{2} \rangle}{\langle u_{1}, u_{2} \rangle} = \frac{\langle f_{3}, u_{3} \rangle}{\langle u_{2}, u_{3} \rangle} = \frac{\langle f_{3}, u_{3} \rangle}{\langle u_{1}, u_{2} \rangle} = \frac{\langle f_{3}, u_{3} \rangle}{\langle u_{2}, u_{3} \rangle} = \frac{\langle f_{3}, u_{3} \rangle}{\langle u_{2}, u_{3} \rangle} = \frac{\langle f_{3}, u_{3} \rangle}{\langle u_{3}, u_{$ $u_2 = x - \frac{\int_{e^{-x}}^{e^{-x}} (x)(1) dx}{\int_{e^{-x}}^{x} dx}$ $u_3 \cdot \chi^2 - \int_{-\infty}^{\infty} e^{-\chi} \chi^2 \int_{\infty}^{\infty} \int_{-\infty}^{\infty} e^{-\chi} (\chi - 1) \chi^2 \int_{\infty}^{\infty}$ Se- * (x-1)2 /2 $x_{1} = x^{3} - \int_{0}^{\infty} e^{-x} x^{3} \int_{0}^{\infty} \int_{0}^{\infty} x^{3} (x-1) e^{-x} dx^{3}$

$$||u_{1}|| = \sqrt{|u_{1}|}, |u_{1}| = \sqrt{\int_{0}^{\infty} e^{-x} dx} = 1 \implies \hat{e}, = 1$$

$$||u_3|| = \sqrt{4u_3} |u_3|^2 = \sqrt{\int_0^{\infty} (x^2-b)^2 dx} = b \implies \frac{e_3^2 - b}{3}$$

$$||u_u|| \cdot \sqrt{\langle u_u, u_u \rangle} = \sqrt{\int_{-\infty}^{\infty} (x^3 - \frac{65}{3})^2} \cdot \frac{8365}{9} = \sum_{n=1}^{\infty} \left(\frac{x^3 - \frac{15}{3}}{3} \right) \left(\frac{9}{8365} \right)$$