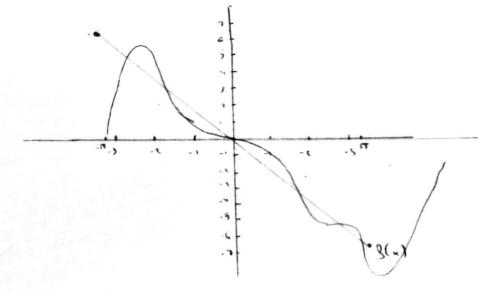
$$a_0 : \frac{1}{1} \left\{ \frac{1}{1} - 2 \times 9 \times \right\} = \frac{1}{1} \left[ -x_1 \right]_{1}^{-1} : \frac{1}{1} - u_2 - (-u)_2 = \frac{1}{1} - 2u_2$$

$$G_{n} = \frac{1}{n} \int_{-\infty}^{\infty} -2x \cos(nx) dx = \frac{1}{n} \left[ -\frac{2(nx)id(nx), (nd(nx))}{n} \right]_{n}^{\infty} = \frac{1}{n} \left[ -\frac{2(nx)id(nx), (nd(nx))}{n} \right]_{n}^{\infty}$$

$$=\frac{1}{\sqrt{\left(-\frac{U_3}{54(-1)}\right)-\left(-\frac{U_3}{54(-1)}\right)}}=0$$

$$bn = \frac{1}{\pi} \left[ \frac{\pi}{-2x \cdot \text{sen}(n_x) d_x} = \frac{1}{\pi} \left[ -\frac{2(\text{en}(n_x) - n_x \text{cod}(n_x))}{n^2} \right] \frac{\pi}{-2x} - \frac{4(\text{en}(\pi n) - \pi n_x \text{cod}(n_x))}{n^2} \right]$$

$$\int g(x) = \frac{\frac{1}{2} - 2\pi^2}{2} + \sum_{n=1}^{\infty} \left( \frac{4(\text{sen}(\pi n) - \pi n \cos(\pi n))}{n^2} \cdot \text{sen}(\pi x) \right)$$



$$=\frac{1}{L}\left(\left[\frac{2}{x_1}\right]^{-\frac{1}{2}}+\left[-\frac{2}{x_1}\right]^{\frac{1}{2}}\right)=\frac{1}{L}\left(\frac{2}{L_1}\right)+\left(-\frac{2}{L_2}\right)=\frac{1}{L}\left(\frac{2}{L_2}\right)+\frac{1}{L}\left(\frac{2}{L_2}\right)$$

$$C_{n} = \frac{1}{\Pi} \left\{ \prod_{i=1}^{n} g(x) \cos(nx) dx = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{\Pi} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx + \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx \right) = \frac{1}{\Pi} \left( \int_{-\Pi}^{Q} x \cos(nx) dx \right) =$$

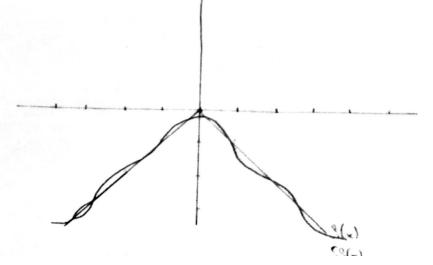
$$= \frac{\pi n \sin(\pi n) + \cos(\pi n) - 1}{n^2} = \frac{(-1)^n - 1}{n^2}$$

$$b_n = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} S(x) \operatorname{sen}(nx) dx = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{C} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{C} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} \operatorname{sen}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx + \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi} \left\{ \int_{-\Pi}^{\Pi} -x \operatorname{cos}(nx) dx \right\} = \frac{1}{\Pi}$$

$$= \frac{1}{2\pi i \ln n} - \frac{1}{2\pi i \ln n} = \frac{1}{2\pi i \ln n} = \frac{1}{2\pi i \ln n}$$

$$SS(x) = \frac{\pi^{-n^2}}{n^2} + \sum_{i=1}^{\infty} \left( \frac{(-i)^{n-2}}{n^2} \right) \cos(nx) + \left( \frac{\pi n(-i)^n}{n^2} \right) \cdot \sin(nx)$$

para nos



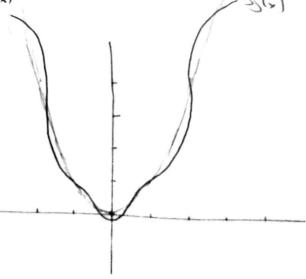
$$q_0 = \frac{1}{\pi} \int_{-\pi}^{\pi} x^3 dx = \frac{1}{\pi} \left[ \frac{x^3}{3} \right]_{-\pi}^{\pi} = \frac{1}{\pi} \left( \frac{\pi^3}{3} - \frac{(-\pi)^5}{3} \right) = \frac{1}{\pi} \frac{2\pi^3}{3} = \frac{2\pi}{3\pi}$$

$$c_{n} = \frac{1}{n} \int_{-\pi}^{\pi} \left( \frac{1}{2((\pi n^2 - 2) + (\pi n^$$

$$=\frac{1}{L}\left(\frac{1}{2}\frac{1}{2}\left(\frac{1}{2}\frac{1}{2}\left(\frac{1}{2}\frac{1}{2}\left(\frac{1}{2}\frac{1}{2}\left(\frac{1}{2}\frac{1}{2}\right)\right)\right)\right)=\frac{1}{L}\left(\frac{1}{2}\frac{1}{2}\left(\frac{1}{2}\frac{1}{2}\frac{1}{2}\right)\right)=\frac{1}{L}\left(\frac{1}{2}\frac{1}{2}\frac{1}{2}\left(\frac{1}{2}\frac{1}{2}\frac{1}{2}\right)\right)$$

$$b_{n} = \frac{1}{1} \left( \frac{1}{2} x^{2} \operatorname{sen}(nx) dx = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2} x^{2}) \cos(nx)} \right) = \frac{1}{1} \left( \frac{2}{2} (x^{2} \ln (nx) + (2 - n^{2}$$

para no3



8(x)

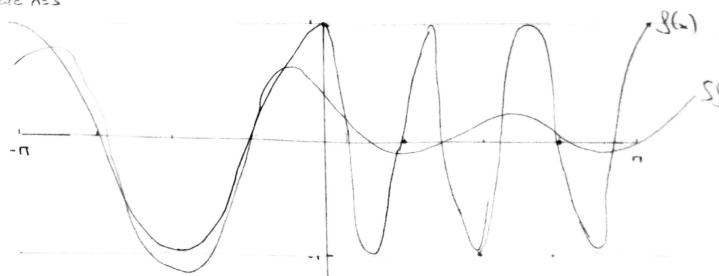
$$a_0 = \frac{1}{4} \left( \frac{1}{4} \mathcal{S}(n) = \frac{1}{4} \left( \frac{1}{4} \cos(x_0) dx \right) - \frac{1}{4} \left( \frac{1}{4} \cos(x_0) dx \right) = \frac{1}{4} \left( \frac{1}{4} \cos(x_0) dx \right) - \frac{1}{4} \left( \frac{1}{4} \cos(x_0) dx \right) = \frac{1}{4} \left( \frac{1}{4} \cos(x_0) dx \right) - \frac{1}{4} \left( \frac{1}{4} \cos(x_0) dx \right) = \frac{1}{4} \left( \frac{1}{4} \cos(x_0) dx \right) - \frac{1$$

$$a_n = \frac{1}{n!} \left( \frac{n!}{n!} g(x) \cos(nx) = \frac{1}{n!} \left( \frac{n!}{n!} \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \right) = \frac{1}{n!} \left( \frac{n!}{n!} \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \right) = \frac{1}{n!} \left( \frac{n!}{n!} \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \right) = \frac{1}{n!} \left( \frac{n!}{n!} \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \right) = \frac{1}{n!} \left( \frac{n!}{n!} \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \right) = \frac{1}{n!} \left( \frac{n!}{n!} \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \right) = \frac{1}{n!} \left( \frac{n!}{n!} \cos(nx) \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos(nx) \cos(nx) \cos(nx) \cos(nx) \cos(nx) + \frac{n!}{n!} \cos(nx) \cos$$

$$b_{n} = \frac{1}{17} \left( \frac{17}{17} \right) \right) \right) \right) \right) \right) \right) \right) \right)} \right) \right)} \right)$$

$$SS(x) = \sum_{n=1}^{\infty} \frac{1}{n!} \left( \frac{n \sin(n\pi n)}{n^2 - 100} + \frac{n \sin(n\pi n)}{n^2 - 100} \right) \cdot \cos(n\pi n) + \frac{1}{n!} \left( \frac{n \cos(n\pi n) - 1}{n^2 - 100} - \frac{n \cos(n\pi n) - 1}{n^2 - 100} \right)$$

para n=3



$$=\frac{1}{8}+\left(-\frac{1}{2},\frac{1}{8}\right)=\frac{1}{8}=\frac{1}{2}$$

$$b = \int_{0}^{1} + \Phi(1)dt = \int_{0}^{1} + \cdot + dt = \left[ \frac{1}{3} \right]_{0}^{1} = \frac{1}{3}$$

$$\left[SS(+) = \sum_{i=0}^{2} \frac{1}{2} A^{2r}(+) + \frac{1}{2} \Phi(+)\right] \quad \text{opuse} \quad \Phi(+) = \begin{cases} 0 & \text{der} \ 0 & \text{der} \ 0 & \text{der} \end{cases}$$

$$a_{3k} = \int_{0}^{1} t^{2} \Psi_{3k}(H) dt = \int_{0}^{\infty} t^{2} dt + \int_{0}^{\infty} t^{2} dt = \left[ \frac{t^{3}}{3} \right]_{0}^{\infty} + \left[ -\frac{t^{3}}{3} \right]_{\infty}^{\infty}$$

$$= \frac{1}{RH} + \left(-\frac{\varrho}{3}\right) - \left(-\frac{1}{24}\right) = -\frac{31}{12}$$