> $a := n \rightarrow \dfrac{1}{\text{Pi}} \cdot \big(int(\,(\text{Pi} + t) \cdot \cos(n \cdot t),\, t = -\text{Pi} ..0\,) + int(\,(\text{Pi} - t) \cdot \cos(n \cdot t),\, t = 0 ..\text{Pi}\,) \big)$

$$a := n \rightarrow \dfrac{\displaystyle\int_{-\pi}^{0} \big(\pi + t\big)\, \cos(n\,t)\, \mathrm{d}t + \int_{0}^{\pi} \big(\pi - t\big)\, \cos(n\,t)\, \mathrm{d}t}{\pi} \tag{1}$$

> $b := n \rightarrow \dfrac{1}{\text{Pi}} \cdot \big(int(\,(\text{Pi} + t) \cdot \sin(n \cdot t),\, t = -\text{Pi} ..0\,) + int(\,(\text{Pi} - t) \cdot \sin(n \cdot t),\, t = 0 ..\text{Pi}\,) \big)$

$$b := n \rightarrow \dfrac{\displaystyle\int_{-\pi}^{0} \big(\pi + t\big)\, \sin(n\,t)\, \mathrm{d}t + \int_{0}^{\pi} \big(\pi - t\big)\, \sin(n\,t)\, \mathrm{d}t}{\pi} \tag{2}$$

> $fourierSum := sum(a(n) \cdot \cos(n \cdot t) + b(n) \cdot \sin(n \cdot t),\, n = 1 ..10)$

$$fourierSum := \dfrac{4 \cos(t)}{\pi} + \dfrac{4}{9}\, \dfrac{\cos(3\,t)}{\pi} + \dfrac{4}{25}\, \dfrac{\cos(5\,t)}{\pi} + \dfrac{4}{49}\, \dfrac{\cos(7\,t)}{\pi} + \dfrac{4}{81}\, \dfrac{\cos(9\,t)}{\pi} \tag{3}$$

> $fourierSuma := Sum(a(n) \cdot \cos(n \cdot t) + b(n) \cdot \sin(n \cdot t),\, n = 1 ..100)$

$$fourierSuma := \sum_{n=1}^{100} \left(-\dfrac{2\,\big(-1 + \cos(\pi\,n)\big)\, \cos(n\,t)}{\pi\, n^2} \right) \tag{4}$$

> $plot(\,fourierSum,\, t = -4 \cdot \text{Pi} ..4 \cdot \text{Pi}\,)$