> $restart : with(LinearAlgebra) : with(plots) : with(plottools) : with(inttrans) :$
$with(VectorCalculus) : SetCoordinates('cartesian'[x, y, z]) :$

> $f := piecewise\left(0 < x \text{ and } x < \text{Pi}, \frac{\text{Pi}}{4}, -\text{Pi} < x \text{ and } x < 0, -\frac{\text{Pi}}{4}\right)$

$$f := \begin{cases} \dfrac{\pi}{4} & 0 < x < \pi \\[2mm] -\dfrac{\pi}{4} & -\pi < x < 0 \end{cases} \tag{1}$$

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

>

>