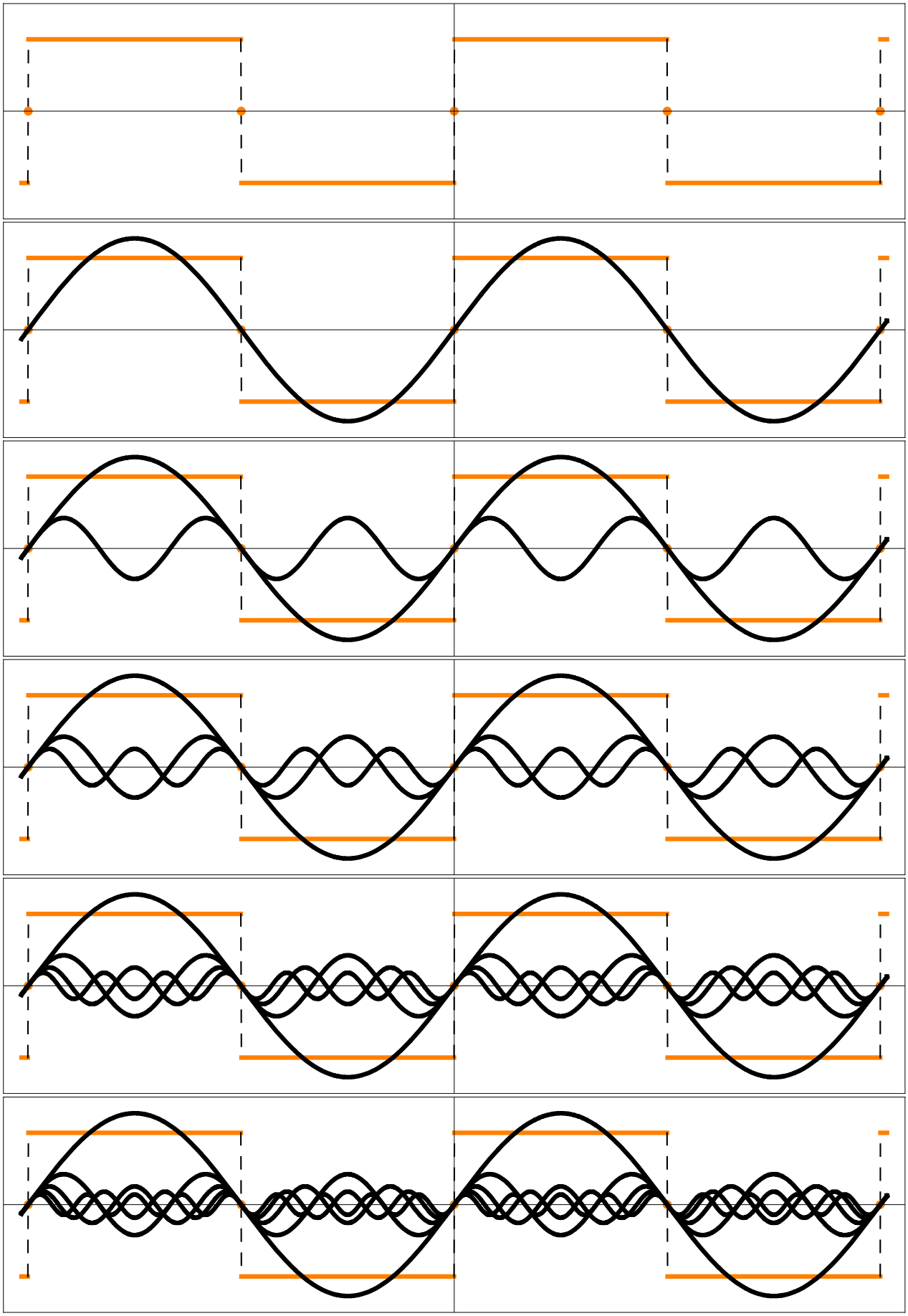
grafy členů Fourierovy řady

$$f(x) = \operatorname{sgn}(\sin x), \quad f_k(x) = \frac{4}{(2k-1)\pi} \sin(2k-1)x, \quad k \in \mathbb{N}$$



aproximace Fourierovými polynomy

f je 2π-periodická, $\quad f(x) = x^2$ na $\langle -\pi, \pi \rangle$, $\quad s_0(x) = \dfrac{\pi^2}{3}$, $s_n(x) = \dfrac{\pi^2}{3} + \displaystyle\sum_{k=1}^{n} \dfrac{4(-1)^k}{k^2} \cos kx$, $n \in \mathbb{N}$