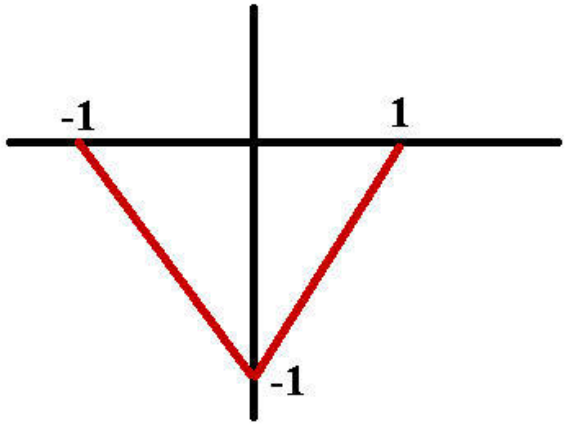
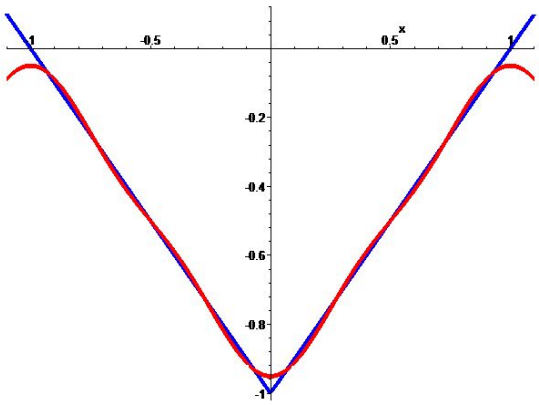
$$f(x) = |x| - 1$$

$$f(x) = \begin{cases} -x - 1 & \text{for } -1 \leq x \leq 0 \\ x - 1 & \text{for } 0 \leq x \leq 1 \end{cases}$$

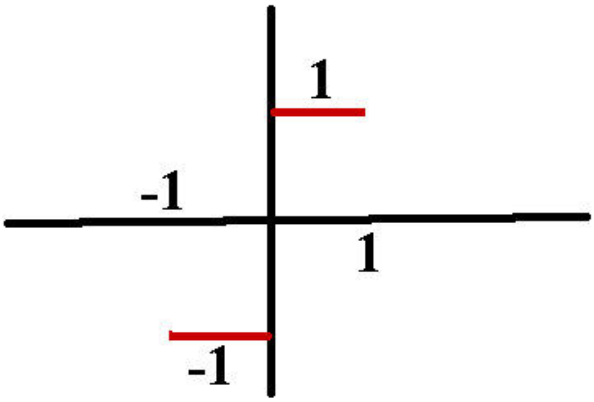


$$f(x) = |x| - 1$$

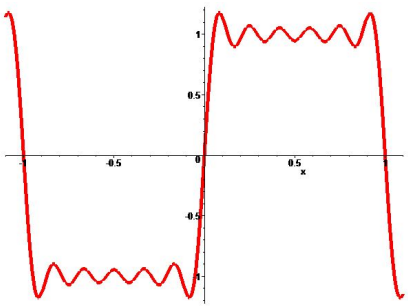
$$f(x) = -\frac{1}{2} + \sum_{n=1}^{\infty} \frac{2}{n^2\pi^2} \left((-1)^n - 1\right) \cos n\pi x$$



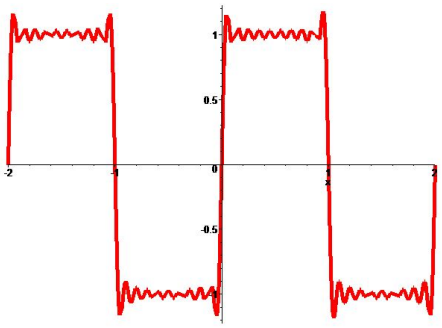
$$f(x) = \begin{cases} 1 & \text{for} \quad 0 \leq x \leq 1 \\ -1 & \text{for} \quad -1 \leq x < 0 \end{cases}$$



$$f(x) = \sum_{n=1}^{\infty} \frac{2}{\pi n} \left(1 - (-1)^n\right) \sin n\pi x$$



$$f(x) = \sum_{n=1}^{\infty} \frac{2}{\pi n} \left(1 - (-1)^n\right) \sin n\pi x$$



$$f(x) = \begin{cases} 0 & \text{for } -2\pi \leq x < -\pi \\ -1 & \text{for } -\pi \leq x < 0 \\ 1 & \text{for } 0 \leq x < \pi \\ 0 & \text{for } \pi \leq x < 2\pi \end{cases}$$

$$f(x) = \sum_{n=1}^{\infty} \frac{2}{\pi n} \left(1 - \cos \frac{n\pi}{2}\right) \sin \frac{n\pi x}{2}$$