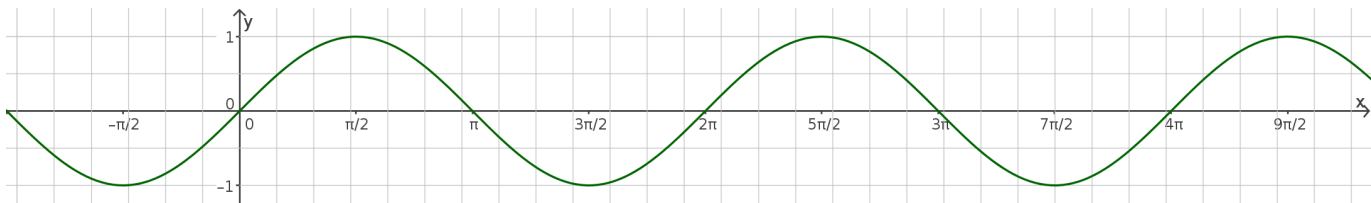
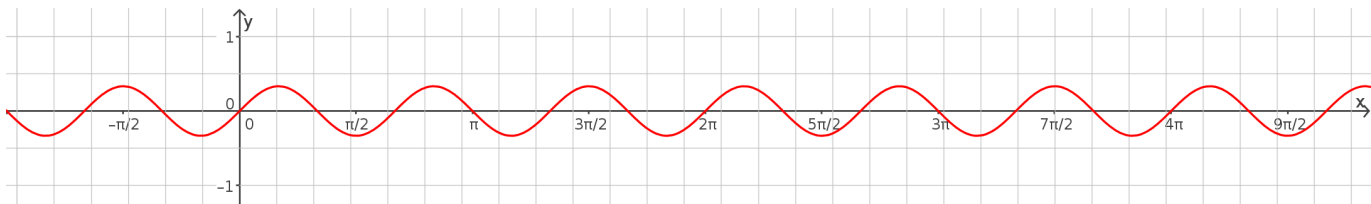


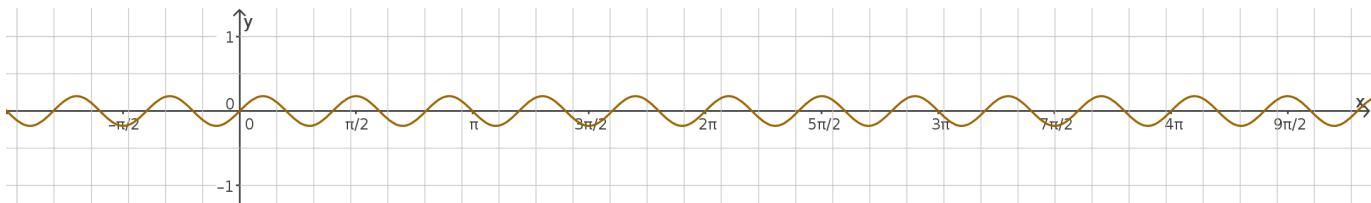
$$\sin(x)$$



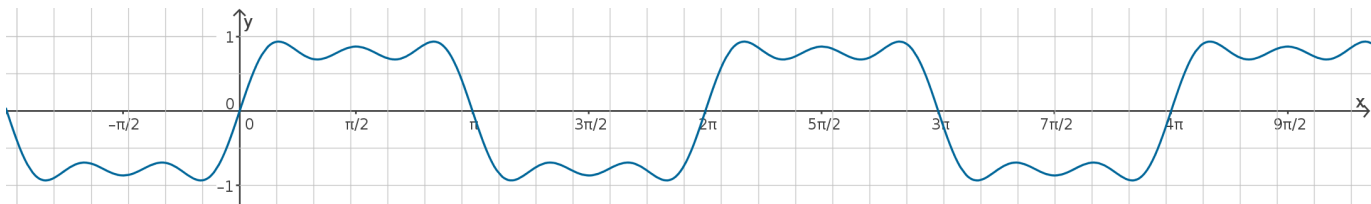
$$\frac{1}{3} \sin(3x)$$



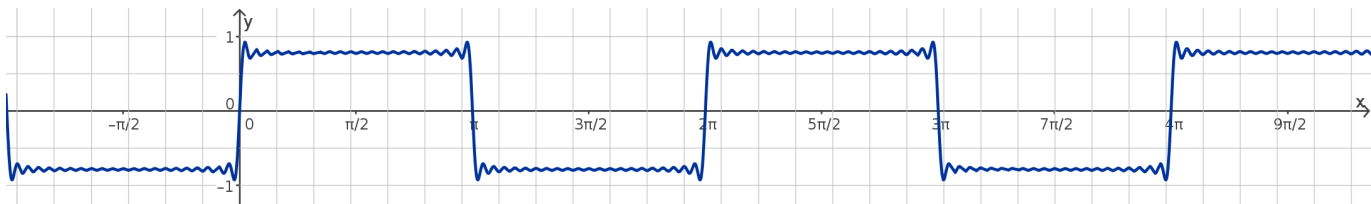
$$\frac{1}{5} \sin(5x)$$



$$\sin(x) + \frac{1}{3} \sin(3x) + \frac{1}{5} \sin(5x)$$



$$\sin(x) + \frac{1}{3} \sin(3x) + \dots + \frac{1}{43} \sin(43x) = \sum_{k=1}^{22} \frac{1}{2k-1} \sin((2k-1)x)$$



$$\sum_{k=1}^{\infty} \frac{1}{2k-1} \sin((2k-1)x) \quad \longrightarrow \quad \text{Rechtecksignal} \quad \left(\text{Amplitude } \frac{\pi}{4}\right)$$