

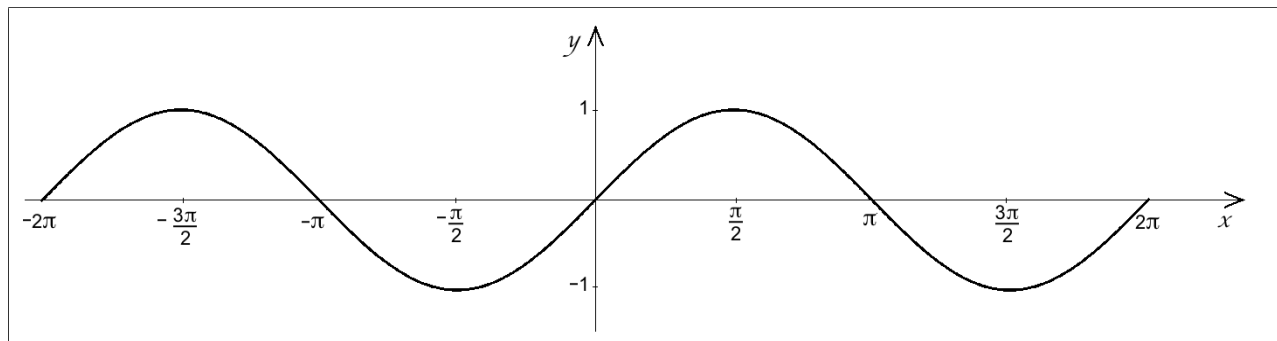
$$f(x) = \sin x$$

domain: $\mathbb{R}$

range: $[-1, 1]$

periodic with period 2π : for all x , $\sin(x + 2\pi) = \sin x$

odd function: for all x , $\sin(-x) = -\sin x$



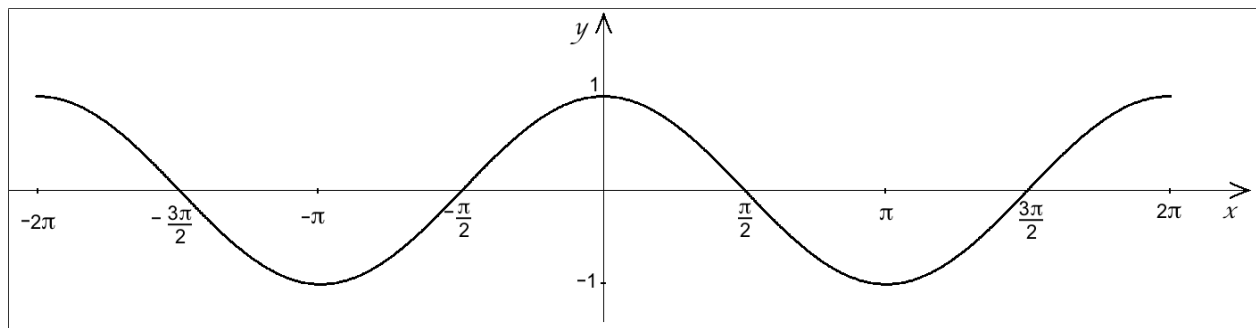
$$f(x) = \cos x$$

domain: $\mathbb{R}$

range: $[-1, 1]$

periodic with period 2π : for all x , $\cos(x + 2\pi) = \cos x$

even function: for all x , $\cos(-x) = \cos x$



$$f(x) = \tan x = \frac{\sin x}{\cos x}$$

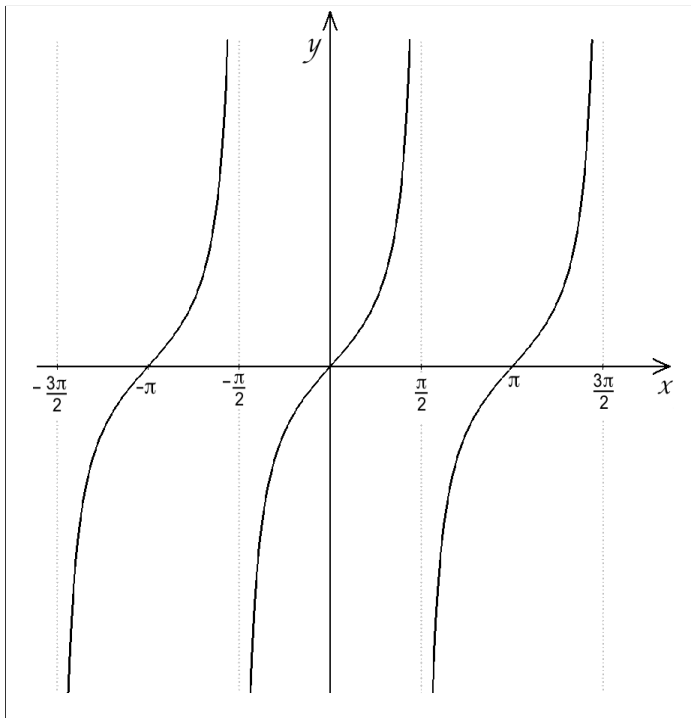
domain: $x \neq \frac{\pi}{2} + k\pi$ where $k \in \mathbb{Z}$

range: $\mathbb{R}$

periodic with period π : for all x , $\tan(x + \pi) = \tan x$

vertical asymptotes at $x = \frac{\pi}{2} + k\pi$ where $k \in \mathbb{Z}$

odd function: for all x , $\tan(-x) = -\tan x$



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