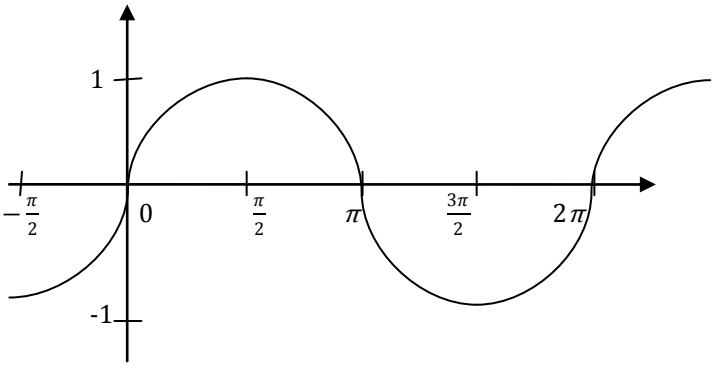
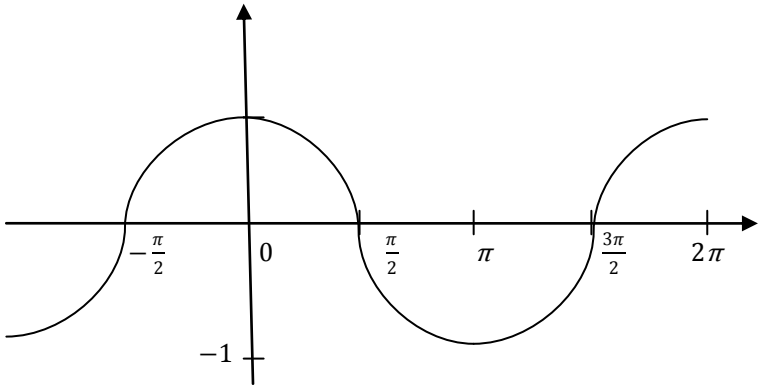
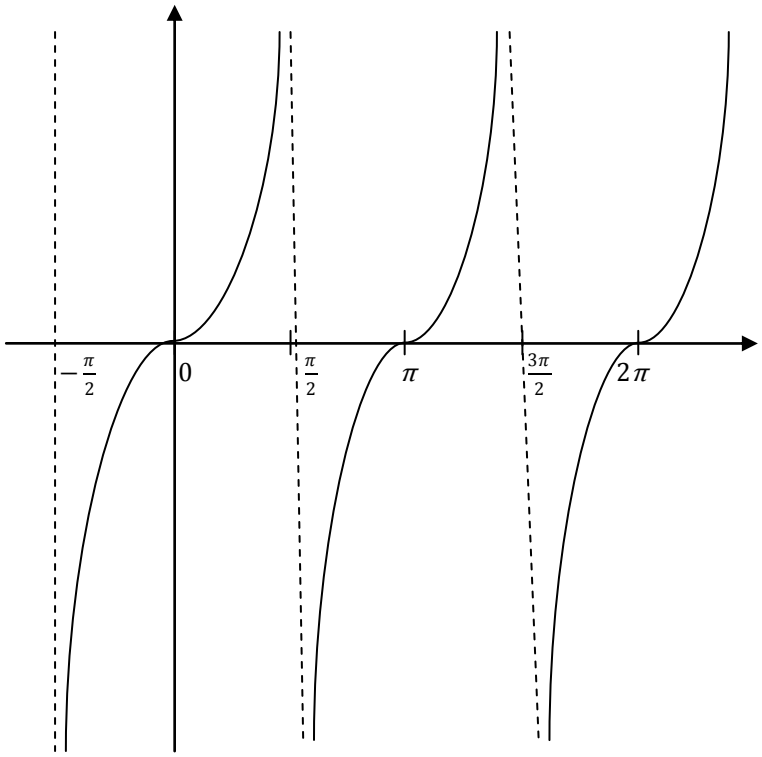


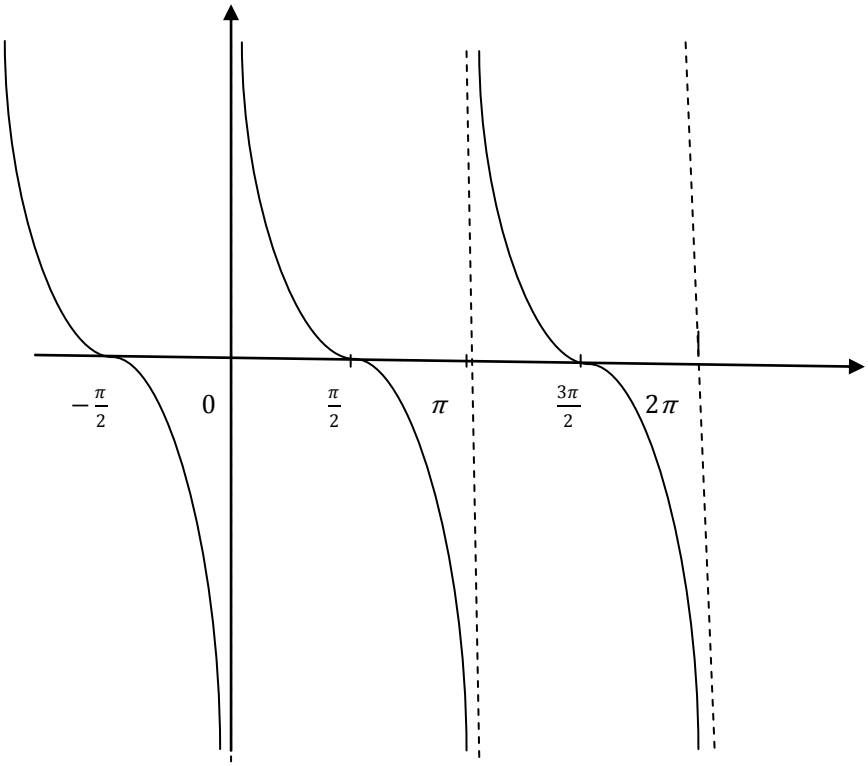
$f_1(x)=\sin x$
$D_{f_1}=\mathbf{R}$
$R_{f_1}=[-1,1]$
$\omega=2\pi$



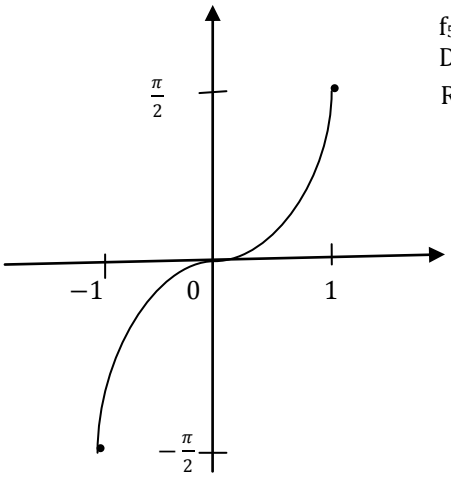
$f_2(x)=\cos x$
$D_{f_2}=\mathbf{R}$
$R_{f_2}=[-1,1]$
$\omega=2\pi$



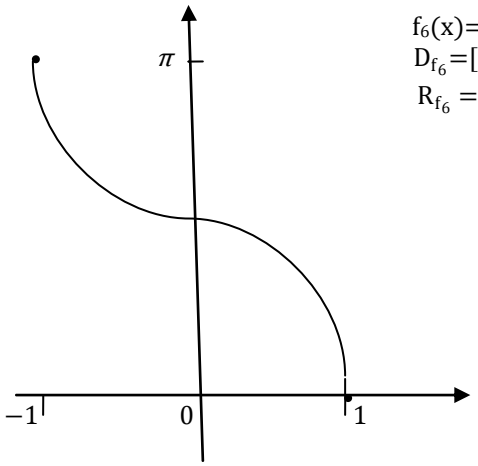
$f_3(x)=\operatorname{tg} x$
$D_{f_3}=\mathbf{R}\setminus\{\frac{\pi}{2}+k\pi \mid k\in \boldsymbol{Z}\}$
$R_{f_3}=\mathbf{R}$
$\omega=\pi$



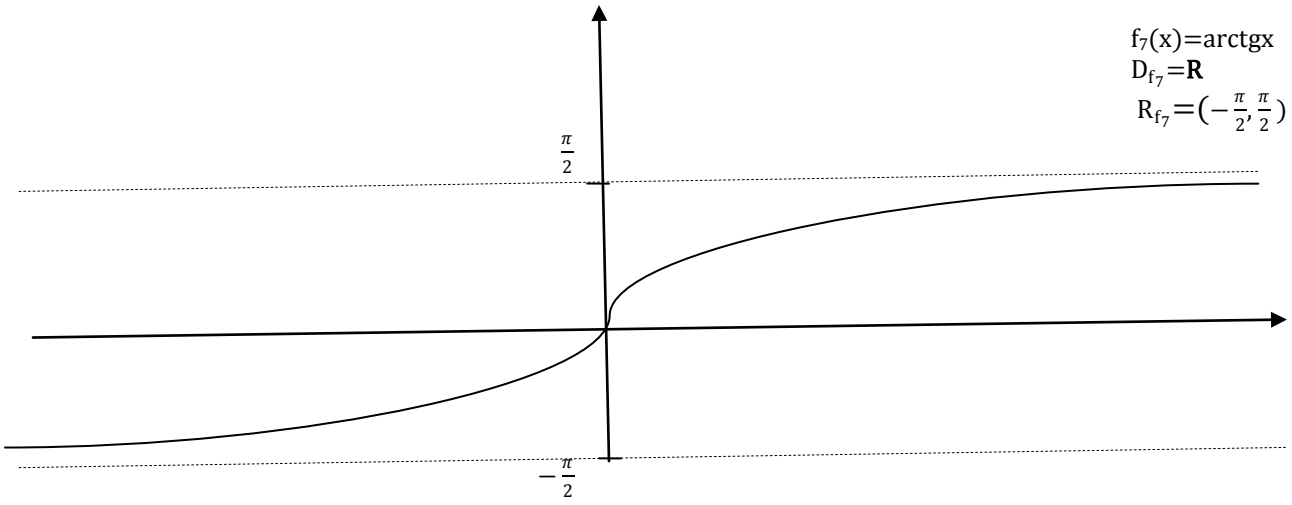
$f_4(x)=ctgx$
$D_{f_4}=\mathbf{R}\backslash\{k\pi \mid k\in \boldsymbol{Z}\}$
$R_{f_4}=\mathbf{R}$
$\omega=\pi$

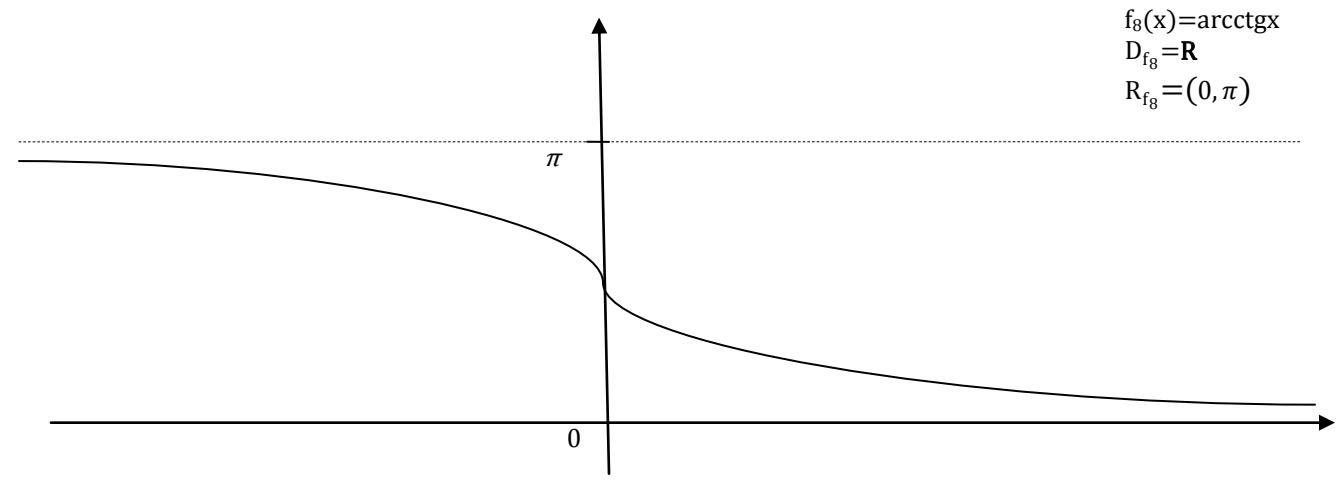


$f_5(x)=\arcsin x$
$D_{f_5}=[-1,1]$
$R_{f_5}=[-\frac{\pi}{2},\frac{\pi}{2}]$



$f_6(x)=\arccos x$
$D_{f_6}=[-1,1]$
$R_{f_6}=[0,\pi]$


$f_7(x)=\text{arctgx}$
$D_{f_7}=\mathbf{R}$
$R_{f_7}=(-\frac{\pi}{2},\frac{\pi}{2})$
$\frac{\pi}{2}$
$-\frac{\pi}{2}$


$f_8(x)=\text{arcctgx}$
$D_{f_8}=\mathbf{R}$
$R_{f_8}=(0,\pi)$
π
0