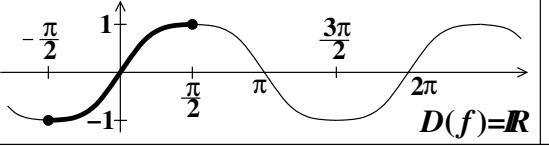
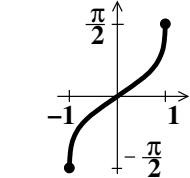
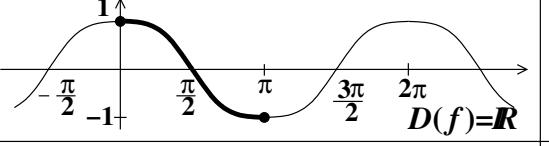
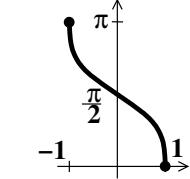
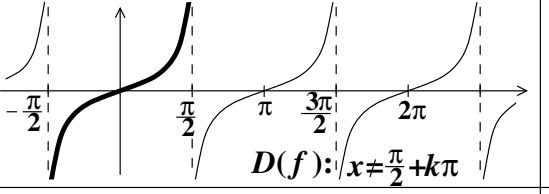
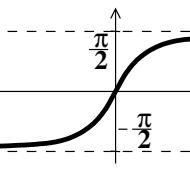
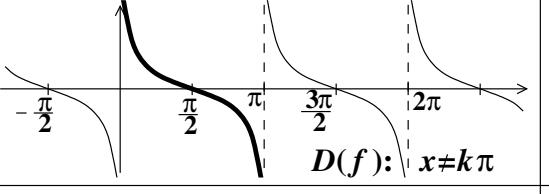
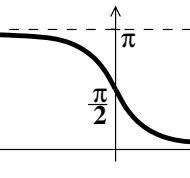
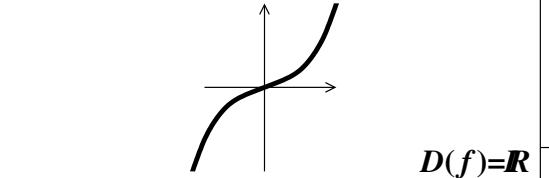
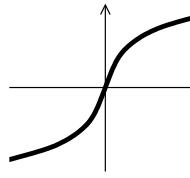
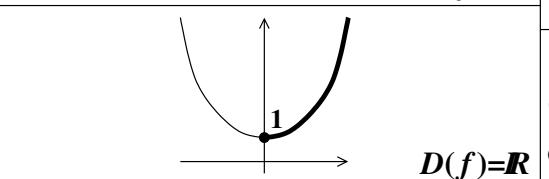
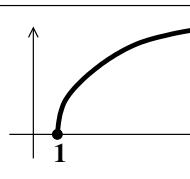
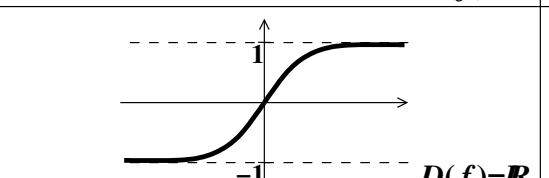
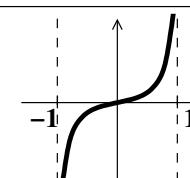
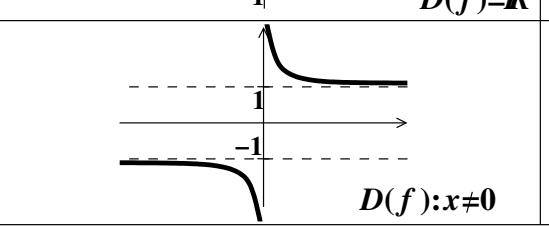
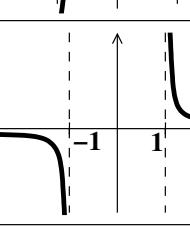


funct $f$	graph (with 1-1 restriction)	identities	$f'$	$\int f dx$	inverse $f_{-1}$	graph $f_{-1}$	$f_{-1}'$
$\sin(x) = \frac{e^{ix} - e^{-ix}}{2i}$ odd, $T=2\pi$		$\sin(x+y) = \sin(x)\cos(y) + \cos(x)\sin(y)$ $\sin(2x) = 2\sin(x)\cos(x)$ $\sin^2(x) = \frac{1-\cos(2x)}{2}$	$\cos(x)$ $\int f dx =$ $-\cos(x)$	$\arcsin(x)$ $D(f_{-1}) = [-1, 1]$		$\frac{1}{\sqrt{1-x^2}}$ $D(f_{-1}') = (-1, 1)$	
$\cos(x) = \frac{e^{ix} + e^{-ix}}{2}$ even, $T=2\pi$		$\cos(x+y) = \cos(x)\cos(y) - \sin(x)\sin(y)$ $\cos(2x) = \cos^2(x) - \sin^2(x)$ $\cos^2(x) = \frac{1+\cos(2x)}{2}$	$-\sin(x)$ $\int f dx =$ $\sin(x)$	$\arccos(x)$ $D(f_{-1}) = [-1, 1]$		$\frac{-1}{\sqrt{1-x^2}}$ $D(f_{-1}') = (-1, 1)$	
$\tan(x) = \operatorname{tg}(x) = \frac{\sin(x)}{\cos(x)}$ odd, $T=\pi$		$\tan(x+y) = \frac{\tan(x)+\tan(y)}{1-\tan(x)\tan(y)}$ $\tan(2x) = \frac{2\tan(x)}{1-\tan^2(x)}$	$\frac{1}{\cos^2(x)}$ $\int f dx =$ $-\ln \cos(x) $	$\arctan(x) = \operatorname{arctg}(x)$ $D(f_{-1}) = R$		$\frac{1}{x^2+1}$ $D(f_{-1}') = R$	
$\cot(x) = \frac{\cos(x)}{\sin(x)}$ odd, $T=\pi$		$\cot(x+y) = \frac{\cot(x)\cot(y)-1}{\cot(x)+\cot(y)}$ $\cot(2x) = \frac{\cot^2(x)-1}{2\cot(x)}$	$\frac{-1}{\sin^2(x)}$	$\operatorname{arccot}(x)$ $D(f_{-1}) = R$		$\frac{-1}{x^2+1}$ $D(f_{-1}') = R$	
$\sinh(x) = \frac{e^x - e^{-x}}{2}$ odd		$\sinh(x+y) = \sinh(x)\cosh(y) + \cosh(x)\sinh(y)$ $\sinh(2x) = 2\sinh(x)\cosh(x)$ $\sinh^2(x) = \frac{\cosh(2x)-1}{2}$	$\cosh(x)$ $\int f dx =$ $\cosh(x)$	$\operatorname{argsinh}(x) = \ln(x + \sqrt{x^2+1})$ $D(f_{-1}) = R$		$\frac{1}{\sqrt{x^2+1}}$ $D(f_{-1}') = R$	
$\cosh(x) = \frac{e^x + e^{-x}}{2}$ even		$\cosh^2(x) - \sinh^2(x) = 1$	$\sinh(x)$ $\int f dx =$ $\sinh(x)$	$\operatorname{argcosh}(x) = \ln(x + \sqrt{x^2-1})$ $D(f_{-1}) = [1, \infty)$		$\frac{1}{\sqrt{x^2-1}}$ $D(f_{-1}') = (1, \infty)$	
$\tanh(x) = \operatorname{tgh}(x) = \frac{\sinh(x)}{\cosh(x)}$ odd		$\tanh(x+y) = \frac{\tanh(x)+\tanh(y)}{1+\tanh(x)\tanh(y)}$ $\tanh(2x) = \frac{2\tanh(x)}{1+\tanh^2(x)}$	$\frac{1}{\cosh^2(x)}$ $\int f dx =$ $\ln \cosh(x) $	$\operatorname{artanh}(x) = \operatorname{argtgh}(x) = \frac{1}{2}\ln(\frac{1+x}{1-x})$ $D(f_{-1}) = (-1, 1)$		$\frac{1}{1-x^2}$ $D(f_{-1}') = (-1, 1)$	
$\coth(x) = \frac{\cosh(x)}{\sinh(x)}$ odd		$\coth(x+y) = \frac{1+\coth(x)\coth(y)}{\coth(x)+\coth(y)}$ $\coth(2x) = \frac{1+\coth^2(x)}{2\coth(x)}$	$\frac{-1}{\sinh^2(x)}$	$\operatorname{argcoth}(x) = \frac{1}{2}\ln(\frac{x+1}{x-1})$ $D(f_{-1}) :  x  > 1$		$\frac{1}{1-x^2}$ $D(f_{-1}') :  x  > 1$	