Funzione primitiva $f: x\in X\to f(x)$	Derivata in un punto x_0 $f'(x_0)=[Df(x)]_{x=x_0}$	X'= insieme di derivabilità	Funzione derivata $f': x\in X'\to f(x)$	sinteticamente $Df(x)=$ in X'
$f: x\in R\to f(x)=c$	$f'(x_0)=[Dc]_{x=x_0}=0 \quad \forall x_0\in R$	R	$f': x\in R\to f'(x)=0$	$Dc=0$ in R
$f: x\in R\to f(x)=x\ (+c)$	$f'(x_0)=[Dx]_{x=x_0}=1 \quad \forall x_0\in R$	R	$f': x\in R\to f'(x)=1$	$Dx=1$ in R
$f: x\in R\to f(x)=mx+n$	$f'(x_0)=[D(mx+n)]_{x=x_0}=m$ $\forall x_0\in R$	R	$f': x\in R\to f'(x)=m$	$D(mx+n)=m$ in R
$f: x\in R\to f(x)=x^n$ $n\in N-\{1\}$	$f'(x_0)=[D\,x^n]_{x=x_0}=nx^{n-1}$ $\forall x_0\in R$	R	$f': x\in R\to f'(x)=nx^{n-1}$	$D\,x^n=nx^{n-1}$ in R
$f:x\in R-\{0\}\to f(x)=x^{-n}\ n\in N$	$f'(x_0)=[D\,x^{-n}]_{x=x_0}=-nx^{-n-1}$ $\forall x_0\in R-\{0\}$	$R-\{0\}$	$f': x\in R-\{0\}\to f'(x)=-nx^{-n-1}$	$D\,x^{-n}=-nx^{-n-1}$ in $R-\{0\}$
$f:x\in X\to f(x)=x^{\alpha}$ $\alpha\in R-Z:\ \alpha\neq 0$ $X=[0,+\infty[$ se $\alpha>0$ $X=]0,+\infty[$ se $\alpha<0$	$f'(x_0)=[D\,x^{\alpha}]_{x=x_0}=\alpha\,x_0^{\alpha-1}$ $\forall x_0\geq 0$ se $\alpha>1$ $\forall x_0>0$ se $\alpha<1$ $f'(0)=[D\,x^{\alpha}]_{x=0}=+\infty$ se $0<\alpha<1$	$X'=[0,+\infty[$ se $\alpha>1$ $X'=]0,+\infty[$ se $\alpha<1$	$f':x\in[0,+\infty[\to f'(x)=\alpha\,x_0^{\alpha-1}$ se $\alpha>1$ $f':x\in]0,+\infty[\to f'(x)=\alpha\,x_0^{\alpha-1}$ se $\alpha<1$	$D\,x^{\alpha}=\alpha\,x^{\alpha-1}$ in X' $[D\,x^{\alpha}]_{x=0}=+\infty$ se $0<\alpha<1$
$f:x\in X\to f(x)=\sqrt[n]{x}$ $n\in N$ $X=R$ se n dispari $X=[0,+\infty[$ se n pari	$f'(x_0)=[D\sqrt[n]{x}]_{x=x_0}=\frac{1}{n\sqrt[n]{x_0^{n-1}}}$ $\forall x_0\in X-\{0\}$ $f'(0)=[D\sqrt[n]{x}]_{x=0}=+\infty$	$X'=X-\{0\}$	$f':x\in X-\{0\}\to f'(x)=\frac{1}{n\sqrt[n]{x^{n-1}}}$	$D\sqrt[n]{x}=\frac{1}{n\sqrt[n]{x^{n-1}}}$ in $X-\{0\}$ $[D\sqrt[n]{x}]_{x=0}=+\infty$
$f: x\in R\to f(x)=a^x \quad a>0$ e $a\neq 1$	$f'(x_0)=[Da^x]_{x=x_0}=a^{x_0}\log a$ $\forall x_0\in R$	R	$f': x\in R\to f(x)=a^x\log a$	$Da^x=a^x\log a$ in R
$f: x\in R\to f(x)=e^x$	$f'(x_0)=[De^x]_{x=x_0}=e^{x_0} \quad \forall x_0\in R$	R	$f': x\in R\to f(x)=e^x$	$De^x=a^x$ in R
$f:x\in]0,+\infty[\to f(x)=\log_a x$ $a>0$ e $a\neq 1$	$f'(x_0)=[D\log_a x]_{x=x_0}=\frac{1}{x_0\log a}$ $\forall x_0\in]0,+\infty[$	$]0,+\infty[$	$f':x\in]0,+\infty[\to f'(x)=\frac{1}{x\log a}$ $=\frac{\log_a e}{x}$	$D\log_a x=\frac{1}{x\log a}$ in $]0,+\infty[$
$f:x\in]0,+\infty[\to f(x)=\log x$	$f'(x_0)=[D\log x]_{x=x_0}=\frac{1}{x_0}$ $\forall x_0\in]0,+\infty[$	$]0,+\infty[$	$f':x\in]0,+\infty[\to f'(x)=\frac{1}{x}$	$D\log x=\frac{1}{x}$ in $]0,+\infty[$
$f: x\in R\to f(x)=\text{sen}x$	$f'(x_0)=[D\text{sen}\,x]_{x=x_0}=\cos x_0$ $\forall x_0\in R$	R	$f': x\in R\to f'(x)=\cos x$	$D\text{sen}\,x=\cos x$ in R
$f: x\in R\to f(x)=\cos x$	$f'(x_0)=[D\cos x]_{x=x_0}=-\text{sen}\,x_0$ $\forall x_0\in R$	R	$f': x\in R\to f'(x)=-\text{sen}\,x$	$D\cos x=-\text{sen}x$ in R
$f: x\in X\to f(x)=tgx$ $X=R-\bigcup_{k\in Z}\left\{\frac{\pi}{2}+k\pi\right\}$	$f'(x_0)=[Dtgx]_{x=x_0}=\frac{1}{\cos^2 x_0}=1+tg^2x_0$ $\forall x_0\in X$	$R-\bigcup_{k\in Z}\left\{\frac{\pi}{2}+k\pi\right\}$	$f': x\in X\to f'(x)=1/\cos^2 x$ $=1+tg^2x$	$Dtgx=\frac{1}{\cos^2 x}=1+tg^2x$ in R

f:x*∈[1,1]→*f(x)=arcsenx	***f'(x₀)***=[D*arcsenx*]$_{x=x_0}$ $=\frac{1}{\sqrt{1-x_0^2}}$ **∀*x₀*∈]-1,1[** *f'(-1)=f'(1)=+∝*	**]-1,1[**	***f':x*∈]1,1[→*f'(x)*=** $\frac{1}{\sqrt{1-x^2}}$	D*arcsen x*= $\frac{1}{\sqrt{1-x^2}}$ ***in*]1,1[** [D*arcsenx*]$_{x=-1}$ = +∝ [D*arcsenx*]$_{x=1}$ = +∝
f:x*∈[-1,1]→*f(x)=arcosx	***f'(x₀)***=[D*arcos x*]$_{x=x_0}$ $=\frac{-1}{\sqrt{1-x_0^2}}$ **∀*x₀*∈]-1,1[** *f'(-1)=f'(1)=-∝*	**]-1,1[**	***f':x*∈]1,1[→f'*(x)*=** $\frac{-1}{\sqrt{1-x^2}}$	D*arcosx*= $\frac{-1}{\sqrt{1-x^2}}$ ***in*]1,1[** D*arcsx*]$_{x=-1}$ = -∝ [D*arcsx*]$_{x=1}$ = -∝
f:x∈R→ f(x)=arctgx	***f'(x₀)***=[D*arctg*]$_{x=x_0}$ $=\frac{1}{1+x_0^2}$ **∀*x₀∈R***	R	***f':x∈R→ f'(x)*=** $\frac{1}{1+x^2}$	D*arctg*= $\frac{1}{1+x^2}$ ***in R***