Pravidla pro derivování

- $(c)' = c' = 0$,
- $(x^n)' = nx^{n-1}$ pro $\forall x \in R$, pro $\forall n \in R$,
- $(e^x)' = e^x$ pro $\forall x \in R$,
- $(a^x)' = a^x \ln a$ pro $\forall x \in R$, pro $\forall a \in R$, $a > 0$, $a \neq 1$,
- $(\ln|x|)' = \frac{1}{x}$ pro $\forall x \in R$, $x \neq 0$,
- $(\log_a|x|)' = \frac{1}{x.\ln a}$ pro $\forall x \in R$, $x \neq 0$, pro $\forall a \in R$, $a > 0$, $a \neq 1$,
- $(\sin x)' = \cos x$ pro $\forall x \in R$,
- $(\cos x)' = -\sin x$ pro $\forall x \in R$,
- $(\mathrm{tg}\, x)' = \frac{1}{\cos^2 x}$ pro $\forall x \in R$, $x \neq (2k+1)\pi/2$,
- $(\mathrm{cotg}\, x)' = -\frac{1}{\sin^2 x}$ pro $\forall x \in R$, $x \neq k\pi$,
- $(\arcsin x)' = \frac{1}{\sqrt{1-x^2}}$ pro $\forall x \in (-1,1)$,
- $(\arccos x)' = \frac{-1}{\sqrt{1-x^2}}$ pro $\forall x \in (-1,1)$,
- $(\mathrm{arctg}\, x)' = \frac{1}{1+x^2}$ pro $\forall x \in R$,
- $(\mathrm{arccotg}\, x)' = \frac{-1}{1+x^2}$ pro $\forall x \in R$,
- $(f + g)' = f' + g'$
- $(f - g)' = f' - g'$
- $(f.g)' = f'.g + f.g'$
- $(c.f)' = c.f'$
- $\left(\frac{f}{g}\right)' = \frac{f'.g - f.g'}{g^2}$
- $[f(g(x))]' = f'(g(x)).g'(x)$.