Derivácia funkcie

$y = f(x) \qquad y' = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}$

$y = c \qquad y' = 0$

$y = x^n \qquad y' = n.x^{n-1}$

$y = x^x \qquad y' = x^x(\ln x + 1)$

$y = e^x \qquad y' = e^x$

$y = e^{-x} \qquad y' = -e^{-x}$

$y = a^x \qquad y' = a^x.\ln a$

$y = \ln x \qquad y' = \frac{1}{x}$

$y = \log_a x \qquad y' = \frac{1}{x.\ln a}$

$y = \sin x \qquad y' = \cos x$

$y = \cos x \qquad y' = -\sin x$

$y = tgx \qquad y' = \frac{1}{\cos^2 x}$

$y = \cot gx \qquad y' = -\frac{1}{\sin^2 x}$

$y = \arcsin x \qquad y' = \frac{1}{\sqrt{1-x^2}}$

$y = \arccos x \qquad y' = -\frac{1}{\sqrt{1-x^2}}$

$y = arctg \qquad y' = \frac{1}{1+x^2}$

$y = arc\cot gx \qquad y' = -\frac{1}{1+x^2}$

$y = u.v \qquad y' = u'.v + u.v'$

$y = \frac{u}{v} \qquad y' = \frac{u'.v - u.v'}{v^2}$

$y = f[\varphi(x)] \qquad y' = f[\varphi(x)]'\varphi(x)'$