(a, C, α - const)

$(C)' = 0$

$(x^{\alpha})' = \alpha x^{\alpha-1}$

$(a^{x})' = a^{x}\ln a$

$(e^{x})' = e^{x}$

$(\log_a x)' = \dfrac{1}{x\ln a}$

$(\ln x)' = \dfrac{1}{x}$

$(\sin x)' = \cos x$

$(\cos x)' = -\sin x$

$(u(x)\cdot v(x))' = u'(x)v(x) + u(x)v'(x)$

$\left(\dfrac{u(x)}{v(x)}\right)' = \dfrac{u'(x)v(x) - u(x)v'(x)}{v^2(x)}$

$(cf(x))' = cf'(x)$

$(f(g(x)))' = f'(g(x))g'(x)$

$(u(x) + v(x))' = u'(x) + v'(x)$

$tg'(x) = \dfrac{1}{\cos^2 x}$

$ctg'(x) = -\dfrac{1}{\sin^2 x}$

$(\arcsin(x))' = \dfrac{1}{\sqrt{1-x^2}}$

$(\arccos(x))' = -\dfrac{1}{\sqrt{1-x^2}}$

$(arctg(x))' = \dfrac{1}{1+x^2}$

$(arcctg(x))' = -\dfrac{1}{1+x^2}$

(a, C, α - const)

$(C)' = 0$

$(x^{\alpha})' = \alpha x^{\alpha-1}$

$(a^{x})' = a^{x}\ln a$

$(e^{x})' = e^{x}$

$(\log_a x)' = \dfrac{1}{x\ln a}$

$(\ln x)' = \dfrac{1}{x}$

$(\sin x)' = \cos x$

$(\cos x)' = -\sin x$

$(u(x)\cdot v(x))' = u'(x)v(x) + u(x)v'(x)$

$\left(\dfrac{u(x)}{v(x)}\right)' = \dfrac{u'(x)v(x) - u(x)v'(x)}{v^2(x)}$

$(cf(x))' = cf'(x)$

$(f(g(x)))' = f'(g(x))g'(x)$

$(u(x) + v(x))' = u'(x) + v'(x)$

$tg'(x) = \dfrac{1}{\cos^2 x}$

$ctg'(x) = -\dfrac{1}{\sin^2 x}$

$(\arcsin(x))' = \dfrac{1}{\sqrt{1-x^2}}$

$(\arccos(x))' = -\dfrac{1}{\sqrt{1-x^2}}$

$(arctg(x))' = \dfrac{1}{1+x^2}$

$(arcctg(x))' = -\dfrac{1}{1+x^2}$