

$$f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x) - f(x)}{\Delta x}$$

$$c' = 0$$

$$(ax+b)' = a$$

$$y=x; y'=1$$

$$\left. \begin{aligned} (x^2)' &= 2x \\ (x^3)' &= 3x^2 \end{aligned} \right\} (x^n)' = nx^{n-1}$$

$$\left(\frac{1}{x}\right)' = -\frac{1}{x^2}$$

$$(\sqrt{x})' = \frac{1}{2\sqrt{x}}$$

$$\left(\sqrt[n]{x}\right)' = \frac{1}{n\sqrt[n]{x^{n-1}}}$$

$$\text{Summa: } [u(x)+v(x)]' = u'(x) + v'(x)$$

$$\text{Vale: } [u(x)-v(x)]' = u'(x) - v'(x)$$

$$\text{Konstanti korrektus: } [c \cdot u(x)]' = c \cdot u'(x)$$

$$\text{Korrektilis: } (u \cdot v)' = u'v + v'u$$

$$\text{Jagatis: } \left(\frac{u}{v}\right)' = \frac{u'v - uv'}{v^2}$$

$$\text{Läufunktsioon: } F'(x) = f'(u) \cdot y'(x)$$

$$\text{Pöördfunktsioon: } g'(x) = \frac{1}{f'(g(x))}$$

$$\text{Trigonomeetrisel: } (\sin x)' = \cos x$$

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

$$(\tan x)' = \frac{1}{\cos^2 x}$$

$$\text{Logaritmifunktsioon: } (\ln x)' = \frac{1}{x}$$

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

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

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