Ako su funkcije $f, g : \mathcal{D} \to \mathbb{R}$ derivabilne na skupu $\mathcal{A} \subseteq \mathcal{D}$, tada za svaki $x \in \mathcal{A}$ vrijedi

$$\begin{aligned}
(f+g)'(x) &= f'(x) + g'(x) \\
(f-g)'(x) &= f'(x) - g'(x) \\
(f \cdot g)'(x) &= f'(x) \cdot g(x) + f(x) \cdot g'(x) \\
\left(\frac{f}{g}\right)'(x) &= \frac{f'(x) \cdot g(x) - f(x) \cdot g'(x)}{g^2(x)}, \quad g(x) \neq 0.
\end{aligned}$$

Tablica derivacija elementarnih funkcija

$$(c)' = 0, \quad c \in \mathbb{R}$$

$$(x^\alpha)' = \alpha\, x^{\alpha-1}, \quad \alpha \in \mathbb{R}, \quad x \in \mathbb{R}$$

$$(\log_a x)' = \frac{1}{x} \log_a e, \quad x > 0$$

$$(\ln x)' = \frac{1}{x}, \quad x > 0$$

$$(a^x)' = a^x \ln a, \quad x \in \mathbb{R}$$

$$(e^x)' = e^x, \quad x \in \mathbb{R}$$

$$(\sin x)' = \cos x, \quad x \in \mathbb{R}$$

$$(\cos x)' = -\sin x, \quad x \in \mathbb{R}$$

$$(\operatorname{tg} x)' = \frac{1}{\cos^2 x}, \quad x \neq (2k-1)\,\frac{\pi}{2}, \quad k \in \mathbb{Z}$$

$$(\arcsin x)' = \frac{1}{\sqrt{1-x^2}}, \quad |x| < 1$$

$$(\arccos x)' = \frac{-1}{\sqrt{1-x^2}}, \quad |x| < 1$$

$$(\operatorname{arctg} x)' = \frac{1}{1+x^2}, \quad x \in \mathbb{R}$$

$$(\operatorname{arcctg} x)' = \frac{-1}{1+x^2}, \quad x \in \mathbb{R}$$

$$(\operatorname{ctg} x)' = \frac{-1}{\sin^2 x}, \quad x \neq k\pi, \quad k \in \mathbb{Z}$$