Ableiten

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

$$(u \pm v)' = u' \pm v'$$

$$\left(\frac{u}{v}\right)' = \frac{v\cdot u' - v'\cdot u}{v^2}$$

$$(f\circ g)'(x) = (f'\circ g)\cdot g'$$

$$(c\cdot f)' = c\cdot f' \quad (\text{falls } c = \text{const})$$

$$\mathrm{pot}_a' = a\cdot \mathrm{pot}_{a-1}$$

$$\sin' = \cos$$

$$\cos' = -\sin$$

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

$$\exp' = \exp$$

$$\log'(x) = \mathrm{rez}\left(\frac{1}{x}\right)$$

$$\arcsin'(y) = \frac{1}{\sqrt{1-y^2}}$$

$$\arccos'(z) = \frac{-1}{\sqrt{1-z^2}}$$

$$\arctan'(a) = \frac{1}{1+a^2}$$

$$\mathrm{const}_c' = \mathrm{const}_0$$

$$\mathrm{ArTh}'(z) = \frac{1}{1-z^2}$$

$$\mathrm{variable}'(a) = 1$$

$$\sqrt[a]{}' = \tfrac{1}{a}\,\mathrm{pot}_{\frac{1}{a}-1}$$

$$(f^{-1})' = \frac{1}{f'\circ f^{-1}}$$

$$\mathrm{id}' = \mathrm{id}$$

$$\mathrm{Ch}' = \mathrm{Sh} \qquad \mathrm{Sh}' = \mathrm{Ch} \qquad \mathrm{Th}' = \frac{1}{\mathrm{Ch}^2}$$

$$\mathrm{ArSh}'(z) = \frac{1}{\sqrt{1+z^2}} \qquad \mathrm{ArCh}'(z) = \frac{1}{\sqrt{z^2-1}}$$