

$$\begin{aligned} &\text{If } y = \sinh x \\ &\text{then } \frac{dy}{dx} = \cosh x \end{aligned}$$

$$\begin{aligned} &\text{If } y = \operatorname{cosech} x \\ &\text{then } \frac{dy}{dx} = -\operatorname{cosech} x \coth x \end{aligned}$$

$$\begin{aligned} &\text{If } y = \cosh x \\ &\text{then } \frac{dy}{dx} = \sinh x \end{aligned}$$

$$\begin{aligned} &\text{If } y = \operatorname{sech} x \\ &\text{then } \frac{dy}{dx} = \operatorname{sech} x \tanh x \end{aligned}$$

$$\begin{aligned} &\text{If } y = \tanh x \\ &\text{then } \frac{dy}{dx} = \operatorname{sech}^2 x \end{aligned}$$

$$\begin{aligned} &\text{If } y = \coth x \\ &\text{then } \frac{dy}{dx} = -\operatorname{cosech}^2 x \end{aligned}$$

$$\begin{aligned} &\text{If } y = \operatorname{arsinh} x \\ &\text{then } \frac{dy}{dx} = \frac{1}{\sqrt{x^2+1}} \end{aligned}$$

$$\begin{aligned} &\text{If } y = \arcsin x \\ &\text{then } \frac{dy}{dx} = \frac{1}{\sqrt{1-x^2}} \end{aligned}$$

$$\begin{aligned} &\text{If } y = \operatorname{arcosh} x \\ &\text{then } \frac{dy}{dx} = \frac{1}{\sqrt{x^2-1}} \end{aligned}$$

$$\begin{aligned} &\text{If } y = \arccos x \\ &\text{then } \frac{dy}{dx} = \frac{-1}{\sqrt{1-x^2}} \end{aligned}$$

$$\begin{aligned} &\text{If } y = \operatorname{artanh} x \\ &\text{then } \frac{dy}{dx} = \frac{1}{1-x^2} \end{aligned}$$

$$\begin{aligned} &\text{If } y = \arctan x \\ &\text{then } \frac{dy}{dx} = \frac{1}{1+x^2} \end{aligned}$$