

4. Find the derivatives of $\sinh^{-1} x$ and $\cosh^{-1} x$ either by using implicit differentiation or by finding the inverse function from the definition and differentiating it.

5. Using 5) and the fact $\frac{d}{dx}(\tanh^{-1} x) = \frac{1}{1-x^2}$. Are there any similarities with the derivatives of inverse circular trig functions?