Exercise 2  
2 (a) 2 Cosh-1(
$$\frac{1}{3}$$
)  $\Rightarrow$  2  $\frac{1}{3}$   $\Rightarrow$   $\frac{-2}{3}$   $\frac{-2}{$ 

$$\frac{4 - (a) - Sech^{-1}3x}{4} \Rightarrow \frac{3}{4} - \frac{1}{3x} \Rightarrow \frac{-4}{x \times 16 - 9x^{2}}$$

(b) 
$$-\frac{\operatorname{Sech}^{-1}2x}{2} \Rightarrow \frac{-1}{2} \cdot \frac{-2}{2x} \xrightarrow{\sqrt{1-4x^2}} \Rightarrow \frac{1}{2x} \xrightarrow{\sqrt{1-4x^2}}$$

8- (a) Sech-(2-1) => 
$$\frac{-1}{(x-1)\sqrt{1-(x-1)^2}}$$

(b) 
$$\tanh^{-1}(\tanh(x)) \Rightarrow \sec(\frac{1}{2}x)$$
 $\tanh^{-1}(\tanh(x)) = x \Rightarrow 1$ 
 $\tanh^{-1}(\tanh(x))$ 

a 10- (a) - 8 sinh o -> Sinh o + 0 (b) 1x Cosh'x > Cosh'x + TX = 12 - d [ Cosh (x))] = 2x -3 x Cosh-1 (Cosh(x)) = x x = x2 d [x2] = 2x # -