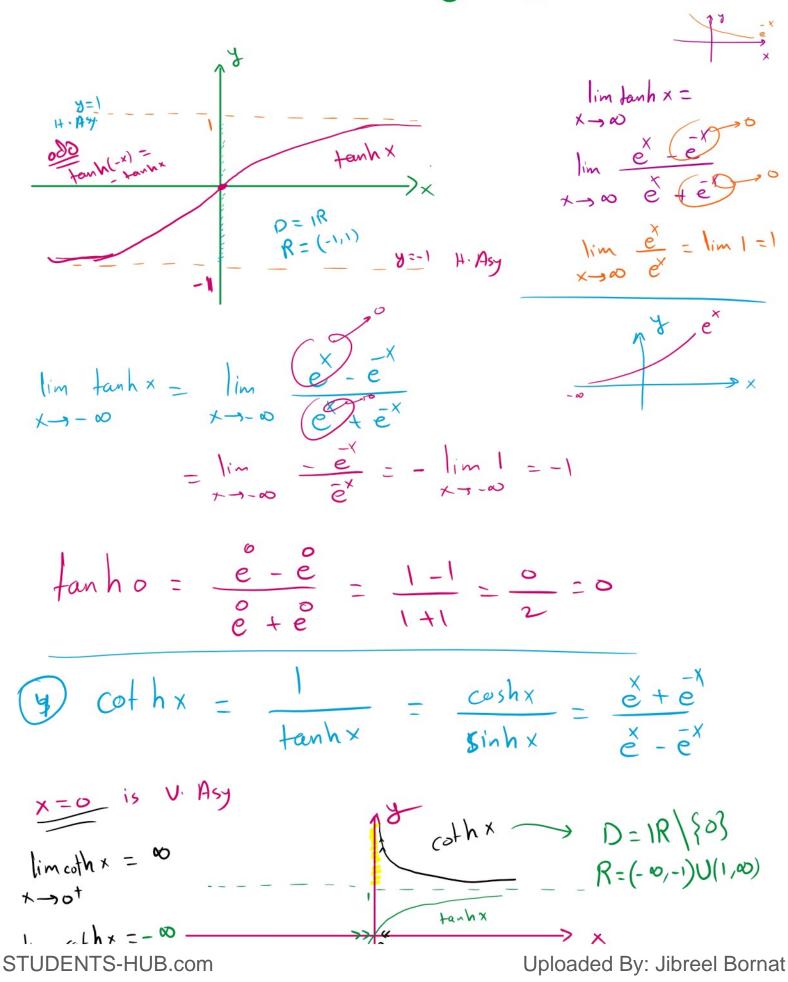
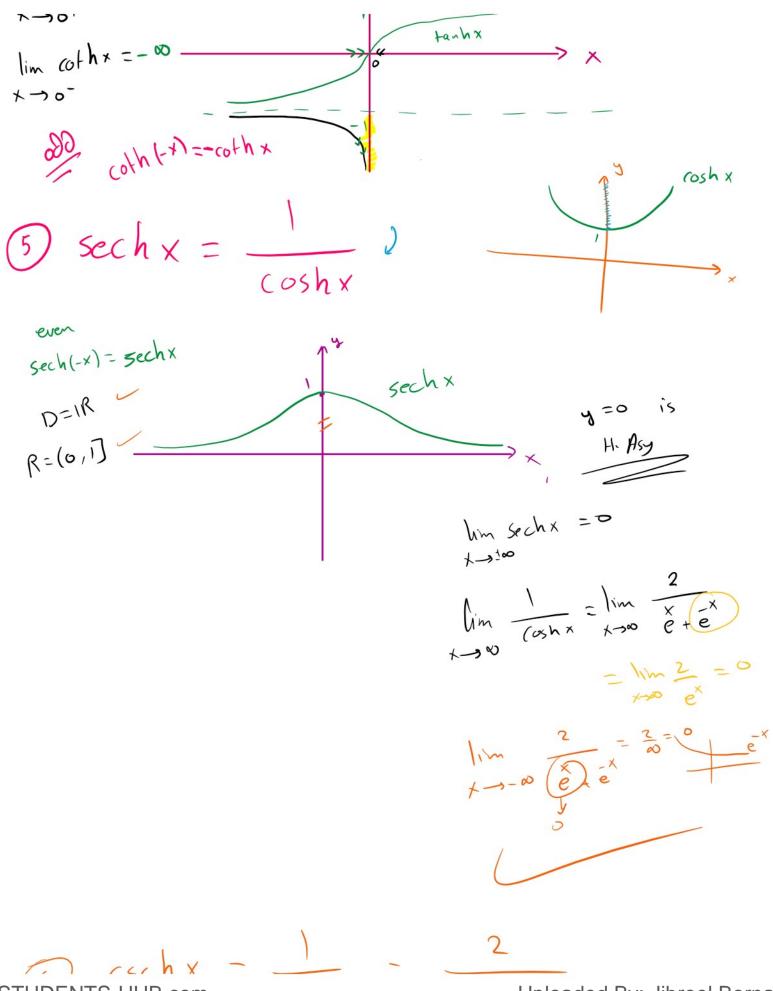


2 + 6





6 
$$\operatorname{csch} x = \frac{1}{\sinh x} = \frac{2}{(x - e^x)^2}$$
  
 $\operatorname{csch} x$   
 $\operatorname{csch}$ 

1 = Coth x - CSCh x

$$\frac{p_{100}}{p_{100}} \left( \begin{array}{c} \cos h^{2} x - \sin h^{2} x = 1 \\ \left( \begin{array}{c} \frac{x}{e} + e^{x} \\ 2 \end{array}\right)^{2} - \left( \begin{array}{c} \frac{x}{e} - e^{x} \\ - e^{x} \end{array}\right)^{\frac{2}{2}} = 1 \\ \frac{e^{2x}}{e^{2x}} + 2 \left( \begin{array}{c} e^{x} - e^{x} \\ 2 \end{array}\right)^{\frac{2x}{e^{2x}}} + 2 \left( \begin{array}{c} e^{2x} - e^{2x} \\ - 2e^{2x} + e^{2x} \\ - 2e^{2x} + e^{2x} \end{array}\right)^{\frac{2x}{e^{2x}}} + 2 \left( \begin{array}{c} e^{2x} - 2e^{2x} + e^{2x} \\ - 2e^{2x} + e^{2x} \\ - 2e^{2x} + e^{2x} \end{array}\right)^{\frac{2x}{e^{2x}}} + 2 \left( \begin{array}{c} e^{2x} - 2e^{2x} \\ - 2e^{2x} + e^{2x} \\ - 2e^{2x} \\ -$$

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$$\frac{1}{2}\left(\begin{array}{c} (\cosh x) \\ = \sinh x \\ = -\sinh x \\ = -\hbar x \\ = -$$

Exp Find 
$$y'$$
 if  $D$   $y = \ln(\sinh \sqrt{x})$   
 $y' = \frac{(\cosh \sqrt{x})}{\sinh \sqrt{x}}$   
 $= \frac{\cosh \sqrt{x}}{\sinh \sqrt{x}}$   
 $= \frac{\cosh \sqrt{x}}{2\sqrt{x}}$   
 $= \frac{\cosh \sqrt{x}}{2\sqrt{x}}$   
 $y' = y \cosh \frac{x^{3}}{3}$   
 $y' = y \sinh \frac{x^{3}}{3}$   
 $= \frac{y^{2}}{x^{2}} \sinh \frac{y^{3}}{3}$   
 $= \frac{y^{2}}{x^{2}} \sinh \frac{y^{3}}{3}$ 

$$= \frac{1}{2} \int \sinh u \, du$$
  
=  $\frac{1}{2} \cosh u + C$   
=  $\frac{1}{2} \cosh (2x) + C$ 

$$\frac{2}{2} \int \cosh x \, dx = \int \cosh x \, dx$$

$$sin hx$$

$$sin hx$$

$$du = \sinh x \, dx = \ln |\sinh x| + C$$

$$\int \frac{du}{u} = \ln |u| + C$$

- (<u>)</u>

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2

In2 y é sinha do  $\int_{-\frac{1}{2}}^{\frac{1}{2}} \frac{1}{2} \frac{1}{$  $2\int (1-\frac{-26}{e}) cl6$ О  $2\left(9-\frac{-29}{e}\right)$  $2\left(6+\frac{1}{2}e\right)^{\ln 2}$  $\left( \left| n2 + \frac{1}{2} e^{-2 \left| n2 \right|} \right) - \left( 0 + \frac{1}{2} e^{0} \right) \right)$ 2  $2\left[\ln z + \frac{1}{2}\left(\frac{\ln z^{2}}{e}\right) - \frac{1}{2}\right]$ 

$$2 \left[ \ln z + \frac{1}{2} e^{-\frac{1}{2}} - \frac{1}{2} \right]$$

$$2 \left[ \ln z + \frac{1}{2} \cdot \frac{1}{2^{2}} - \frac{1}{2} \right]$$

$$2 \left[ \ln z + \frac{1}{2} \cdot \frac{1}{2^{2}} - 1 \right]$$

$$4 \left[ \ln 4 + \frac{1}{4} - 1 \right]$$

$$\ln 4 - \frac{2}{4}$$

$$\lim_{x \to 0} \frac{\sin x}{x} = 1$$

$$\frac{2}{9}$$

$$\lim_{x \to 0} \frac{\sin hx}{x} = 1$$

$$\frac{3}{9} \frac{1}{3} \frac{3}{3} \frac{\sin hx}{x}$$

$$\lim_{x \to 0} \frac{\cosh x}{x} = \cosh 0$$

$$\frac{1}{9} \frac{8}{3} \cosh x$$

$$\frac{1}{9} \frac{\cos hx}{\cos hx}$$