13. $y = \frac{e^x}{3e^x+1}$ $\quad P \quad P' = e^x$ $\quad Q \quad Q' = 3e^x$

$$\frac{P'Q - PQ'}{Q^2}$$

$$y' = \frac{e^x(3e^x+1) - e^x \cdot 3e^x}{(3e^x+1)^2}$$

$$= \frac{e^x[3e^x+1-3e^x]}{(3e^x+1)^2}$$

$$= \frac{e^x(1)}{(3e^x+1)^2}$$

$$= \boxed{\frac{e^x}{(3e^x+1)^2}}$$

14. $f(x) = \csc x \sin x \quad (\frac{\pi}{2}, \pi)$

FIND SLOPE OF TANGENT LINE

① FIND DERIVATIVE

$$f(x) = \frac{1}{\sin x}(\sin x)$$

$$f(x) = 1$$

$$f'(x) = 0$$

② CHANGE f' TO m AND PLUG IN x PART OF POINT

$$\boxed{m = 0}$$