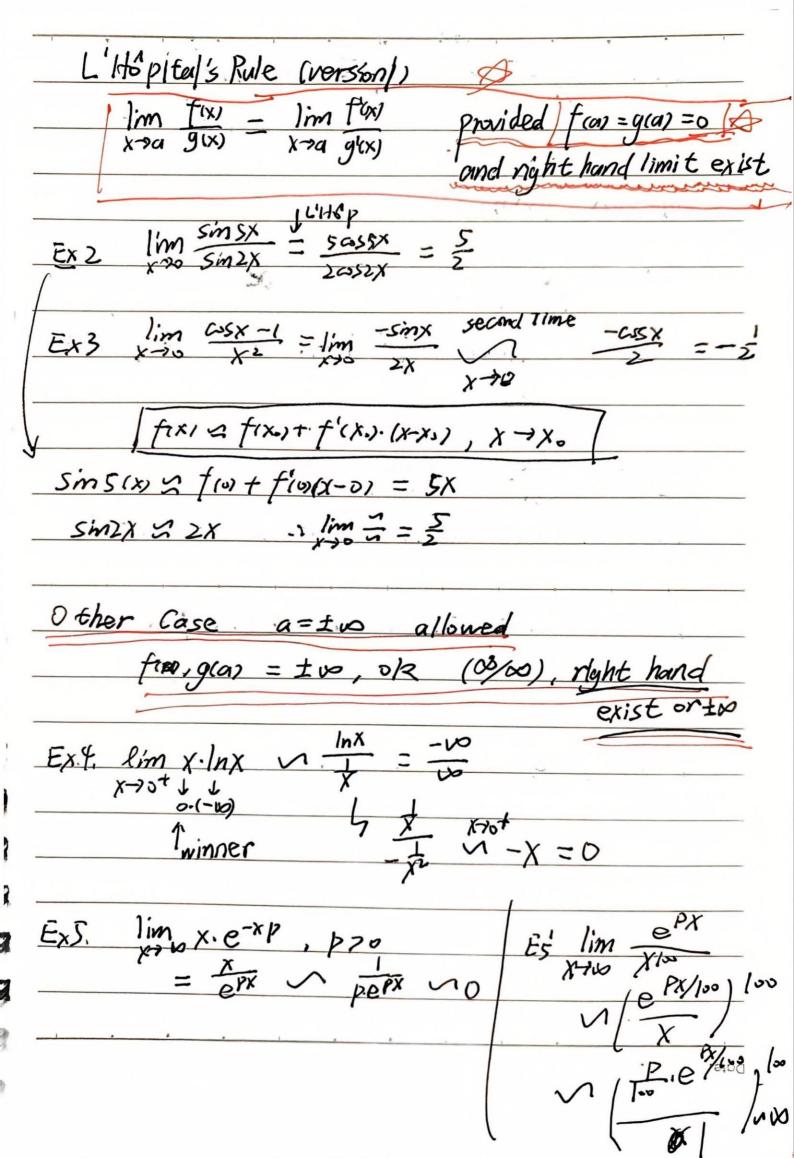
LEC 35. 229.1.2 L'Hospital's rule a convenient way to calculate limits including new mes, X->0+ XMX, in f(a) = g(a) = 0im gw-9(a) Date.



$\frac{1}{2}$ $\frac{1}$
$= 3 \chi^{-3} \sim 0$
Λ that f and Ω°
Another form: 0°
$e' \chi x = e'' = e^{\chi m} \rightarrow e' = $
$\frac{1}{x} = \frac{x}{x} = 1$
Fishy wrong, because $crs 0 = 1. \pm 0$ $\int \frac{\sin x}{x^2} \frac{x \to 0}{x} \frac{\cos x}{2} \frac{\cos x}{2} \frac{\sin x}{x \to 0} = 1. \pm 0$
(iner approx: sinxyx -> 1/x= x -> w (x 70+)
Ponte use L'Idospital as a crutch (topts)
Don't traget busic algebra when you doing this

· nina