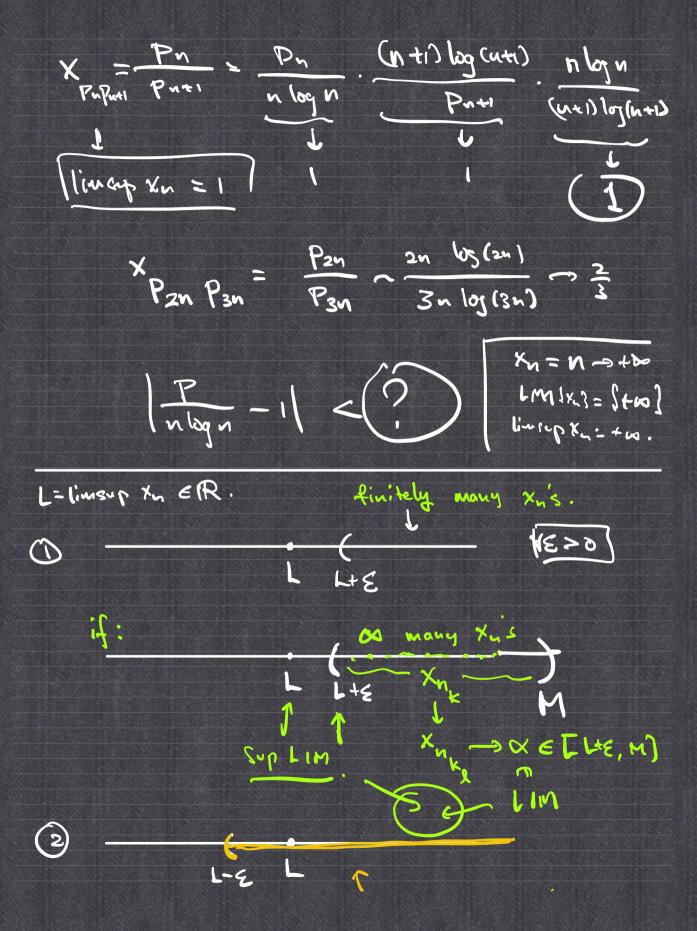
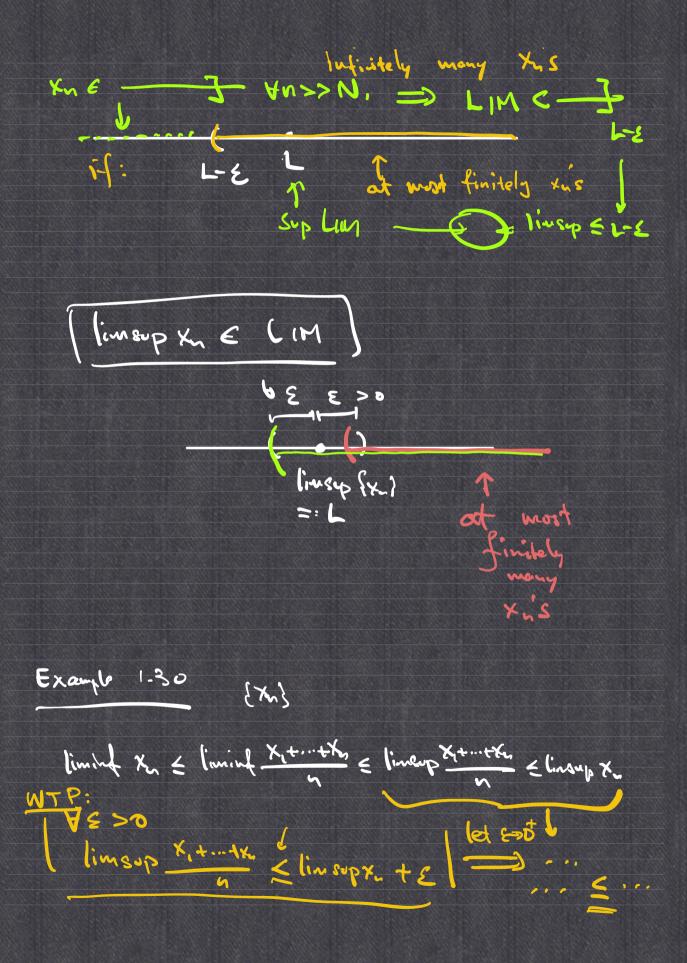
linesup 
$$x_n = \sup_{n \to \infty} L(n \le x_n)$$
  
liminf  $x_n = \inf_{n \to \infty} L(n (x_n))$ 

Ex . 1.25

$$\begin{array}{lll}
x_{N} = \int \frac{1}{P_{L}} & \text{if} & N = P_{1}^{\alpha}. \\
\frac{P_{m_{1}}}{P_{m_{k}}} & \text{if otherwise} \\
P_{m_{k}} & P_{m_{k}}^{\alpha} \cdots P_{m_{k}}^{\alpha} \\
O < x_{N} < I & P_{m_{k}}^{\alpha} < P_{m_{k}}^{\alpha} \\
P_{m_{k}} & P_{m_{k}}^{\alpha} < P_{m_{k}}^{\alpha} \\
P_{m_{k}} & P_{m_{k}}^{\alpha} < P_{m_{k}}^{\alpha} \\
P_{m_{k}} & P_{m_{k}}^{\alpha} & P_{m_{k}}^{\alpha} \\
P_{$$

$$x_{b} = x_{2:3} = \frac{2}{3}$$
,  $x_{12} = x_{2:3} = \frac{2}{3}$   
 $x_{Pn}P_{n+1} = \frac{P_{n}}{P_{n+1}}$   $\Rightarrow$  ?





lim apx, most fluitely Xn < limsupx + & x1+...+xn = x1+...+xn + xnnt...+xn  $\frac{1}{X^{1}+\cdots+X^{n}} \leq \frac{1}{X^{1}+\cdots+X^{n}} + (\overline{u}-N)(||u||^{2n}+\epsilon)$ limsup X1+...+xn < limsup X1+...+xn + (n-n) (insup xx+ E) lim. & com. 0 + 1. (limsup x + 4) limsop Xx + {