lim (cos22) == [10] 4 = (cos22) = , lny = ln ((cos22) =) lny = 2 ln cos2a lim (lny) = lim(teln cos2a) lim to la tos 22 - lim la cos22 - [] = lim (la cos2) = lim tonza (-sin 2a) 2 = lim -tg2a = [0] = - lem $\frac{(\log x)'}{x} = -\lim_{x \to 0} \frac{2}{x^{-1}} = -\lim_{x \to 0} \frac{2}{\cos^2 x} = -\frac{2}{1} = -2$ lim (lay) = la (liny) N7 3.26 lim (1)2= -007 $y = (\frac{1}{2})^{2^2}$, $\ln y = \ln (\frac{1}{2})^{2^2}$; $\ln y = x^2 \ln (\frac{1}{2})$ lim(lny) = lim 22 ln(ta)

lim 22 (n(d) = = 0 00] = [(n(d) = 100] = = lin (2n(1)) = lin 2.(-1) = lin 2 = [0] = = lim 32' = 9 = 0 lim (log) = ln(limy) => => ln(limy)=0=> lim y=e0=> lin(2)2= Um 2 1+1x = 10° 7 y = & 1-line; lay = la & 1+lix , lay = 1+lix la 2 lem (log) = lem (recha tha) lim tola tha = lim tox = [00] - lim (12) = lim = lim = 1 lim (lny) = ln (ling) => => ln(ling)=1=> ling=0'=> lingtime= E