(22) lum archy = " $\overline{0}$ = t = archy) $(x \to 0) (x)$ X=>07t -> and 0-0 $=\lim_{t\to 0} \frac{t}{t} = \lim_{t\to 0} \frac{t}{smt} = \lim_{t\to 0} \cos t \cdot t$ $\begin{cases}
\lim_{t \to 0} \cot t & = 1. \frac{1}{1} = 1 \\
t \to 0 & = 1
\end{cases}$

 $\frac{1}{\sqrt{3}} = \frac{1}{\sqrt{5}} = \lim_{x \to T} \frac{1}{2x}$ Rim = lim - 2 m coñ = 2.1-112

29) lun 2010 5001. ancsan(x-2)lun X >> 2 (X/X-2) $=\frac{1}{2}\lim_{x\to 2}\frac{\operatorname{ovcsm}(x-2)}{x-2}$ $\int_{A}^{A} t = arcsm(x-2)$ $\int_{A}^{A} sm t = x-2$ 15X-)2=) (-) aron (22) $=\frac{1}{2}\lim_{t\to 0}\frac{t}{1+2}=\frac{1}{2}\lim_{t\to 0}\frac{1}{1+2}=\frac{1}{2}$ = ar csm 0-0

lim 1-000(21) = 5 - lon _m2+ co3x - 1 × > 0 $=2\lim_{X\to0}\frac{m^2X}{x^2}=2\lim_{X\to0}\frac{mx}{X}$ len $\frac{mx}{X}$. - 2.1.1 = 2

 $\frac{26}{x} \lim_{x \to \frac{\pi}{5}} \frac{\cos(2x)}{\cos(2x)} = \frac{10}{5} \lim_{x \to \frac{\pi}{5}} \frac{\cos^2 x - m^2 x}{\cos(2x)} = \lim_{x \to \frac{\pi}{5}} \frac{\cos^2 x - m^2 x}{\cos(2x)} = \lim_{x \to \frac{\pi}{5}} \frac{\cos^2 x - m^2 x}{\cos(2x)} = \lim_{x \to \frac{\pi}{5}} \frac{\cos(2x)}{\cos(2x)} = \lim_{x \to \infty} \frac{\cos(2x)}{\cos(2x)} =$ $=\lim_{x\to \frac{\pi}{4}}\frac{|\cos x-\sin x|}{|\cos x+\sin x|}=\frac{\pi}{2}+\frac{\pi}{2}=\frac{\pi}{2}$

lun (41) 1x+1-+1 X>0 /X+1-1 /X+1-+1 1+1=1+1=2 = lin Am/41. (1x+17+1)= X+1-1 un (4x) 4

(2) 2-4 (Cost) = 4 URCITE TO LEBUDE (29) lim x /ln (x+2)-lnx) = $= \lim_{\chi \to \infty} \left(\frac{\chi}{\chi} \right) = \lim_{\chi \to \infty} \left(\frac{\chi}{\chi} \right)^{\frac{1}{2}}$ $= \ln \left| \lim_{X \to \infty} \left(1 + \frac{3}{X} \right) \right|^{X} = \ln e^{2} =$ $= 2 \ln e = 2$

1= 52x 1= 63x 2= 63x (30) lin (1+342/4)) cots lum (1+1+) = 1 +>0 =lm/1-132/= +>0 1= 1