417-6)

$$\lim_{x \to \infty} \frac{6^{2x} + 5^{x}}{6^{2x+1} - 5^{x+1}} = \lim_{x \to \infty} \frac{6^{2x} + 5^{x}}{606^{2x} - 5.5^{x}} = \lim_{x \to \infty} \frac{1 + (5)^{x}}{6.1 - 5 \cdot (5)^{x}} = 1 = \frac{1}{9}$$

$$\frac{4/h - a}{4 + a} = 0$$

$$\frac{4 + a}{4 + a} =$$

111-24 1724

2 (x 2xx 1 xm 1 te(-0;-2) ~ \*(0; a)

9/6-0) en las lu 241 >0 w has f(x) = (ln 2+1) (00 (Tx) 2++7 >1 D(f)=(-0;-1)v(0;0) lin (lu = 1+1) (05 (Tx) - new definition (flu le )) 100 (Ta) -1(x 1-1)x 1x = 1 lin (lu 2x+1) (05 (Tx) = = lin leg (cos(Tx) lu(lu(2x+7))) = leg (lin cos(Tx) lin flu(lu(2++7))) = = lep (lin costex) ln (lin ln (2++7)) = lep (-1. ln (0)) = 0 lin lu (2++1) = lu (-2+7) = lu (1)= 9 lin & exp (him cos(Tix) he (him hu ( = 1)) = lep (1. ln(a) = 0) him h (2++1) = le h ( 1 ) = 00

$$\frac{x^{2}+1-x^{2}}{\sqrt{x^{2}+7}+x} \cdot \cos \sqrt{x^{2}+7} = \frac{1}{\sqrt{x^{2}+7}+x} \cdot \cos \sqrt{x^{2}+7} = 0$$

$$\lim_{k\to 9} \frac{3\cdot 4^{*}-4\cdot 3^{*}}{5^{*}-5\cdot 2^{*}-1} = \left(\frac{72-72}{5-5\cdot 1}\right) = \left(\frac{0}{0}\right)^{\frac{1}{4}} = \lim_{t\to 9} \frac{3\cdot 5^{*}}{5^{*}\ln 5 - 5\cdot 2^{*}-1} \cdot \ln 2 =$$

$$= \frac{3.404 \text{ hm } 4 - 3.4. \text{ lm } 3}{5. \text{ lm } 5 - \text{ lm } 5 \text{ lm } 2} = \frac{3.404 \text{ lm } 3}{5 \text{ lm } (\frac{5}{2})}$$