1) Nemmed of yeupenmoa chadamach F, y: DCIR-JR d-n+.D, a6TR 1 4(a) P, y +08 4(a)1) $\lim_{x\to\alpha} f(x) = 0 \qquad \lim_{x\to\alpha} g(x) = 0$ Torga: $\forall (xx): x_{e\rightarrow a}$ $\exists (yx) y_{x\rightarrow a}$ $\forall x_{e\rightarrow a}$ $\exists (yx) y_{x\rightarrow a}$ $\exists (yx)$ lim g cya) =0 Nonymatra, us y ropardo obraspez capemuran x d, reem x_{R} Dokaresterocabo: Orebreguo $\frac{1}{y} \frac{g(x_{R})}{|y|} \frac{1}{|x|} \frac{f(x_{R})}{|x|} \frac{1}{|x|}$ Oreb. no onp. upegera, => yx:=xn Dameraune: diarourno limf(x) =+0 lim A(X) = + = 2) Como upaburo Romirara fying $f(x) \rightarrow IR$, f(x), $f(x) \rightarrow IR$, $f(x) \rightarrow IR$ Nyerb $f'(x) = A \in IR$ $f(x) \rightarrow IR$ f(x)

Dorazatroporto: 1=0=> g'noar.zridhon T.Dapsy G +0 b oup. T. a f(Ca,6b)=Cqd3=> ne viewer zrac. Usyndem? $= \lim_{k \to \infty} \frac{f(k)}{g(k)}$. No Jenue Depoin Karne 70 (x_k) (x_k) $\frac{f(\lambda_{k})}{g(\lambda_{k})} = \frac{f(y_{k})}{g'(\lambda_{k})} + \frac{f(\lambda_{k})}{g'(\lambda_{k})} \left(1 - \frac{g(y_{k})}{g(\lambda_{k})}\right)$ $\int_{0}^{\infty} \frac{g(\lambda_{k})}{g(\lambda_{k})} + \frac{f(\lambda_{k})}{g'(\lambda_{k})} \left(1 - \frac{g(y_{k})}{g'(\lambda_{k})}\right)$ $\int_{0}^{\infty} \frac{g(\lambda_{k})}{g(\lambda_{k})} + \frac{f(\lambda_{k})}{g'(\lambda_{k})} \left(1 - \frac{g(y_{k})}{g'(\lambda_{k})}\right)$ $\int_{0}^{\infty} \frac{g(\lambda_{k})}{g(\lambda_{k})} + \frac{f(\lambda_{k})}{g'(\lambda_{k})} \left(1 - \frac{g(y_{k})}{g'(\lambda_{k})}\right)$ $\int_{0}^{\infty} \frac{g(\lambda_{k})}{g(\lambda_{k})} + \frac{g(\lambda_{k})}{g'(\lambda_{k})} \left(1 - \frac{g(y_{k})}{g'(\lambda_{k})}\right)$ $\int_{0}^{\infty} \frac{g(\lambda_{k})}{g(\lambda_{k})} + \frac{g(\lambda_{k})}{g'(\lambda_{k})} + \frac{g(\lambda_{k})}{g'(\lambda$