<u>Limites:</u>

1 · Limites parabólicos, radiales Para probar existencia

2 · Limites reiterados

de limite

3 · Polares

4 . Ta de los sandwitches

5 · Acotando

6 · Criterio de la mayorante:

Teorema: Si existe una función $h: E(0,\delta) \rightarrow \mathbb{R}$ tol que: \(\text{(\text{\text{\text{(\text{\tin}}\text{\tin}\text{\tin}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti entonces lim g(r,O) = l (tienes que conocer l de antonomo)

7 . Definición

Definition: See Ma(x., y.) the give of purels sur definited on the purts. Se dice give of admits on timits of mits.

 $\lim_{t\to\infty} f(w) = \lim_{t\to\infty} \frac{t^{+} h^{+}(t)}{t^{+}h^{+}(t) + (t-th(t))^{2}} = \lim_{t\to\infty} \frac{t^{+} h^{+}(t)}{t^{+}h^{+}(t) + (t-h(t))^{2}}$ they give too per prise can high phenomes 3 solutions to their processing of the content of the price of the price of the content of the price of • S_i $h(t) \xrightarrow{t \to 0} 0$ enterior $\lim_{(x,y) \to (x,y)} f(x,y) = \frac{Q}{t} = 0$ Si h(t) to Kee observe the five = 0

9. Infinitésimos equivalentes

Tenemos: $\tan(f(x,y)) \sim f(x,y)$ $sen(f(x,y)) \sim f(x,y)$ ln (1+ f(xx)) ~ f(x,y) arcsen $(f(x,y)) \sim f(x,y)$ $e^{f(x,y)}-1 \sim f(x,y)$ arc tan $(f(x,y)) \sim f(x,y)$ $a^{f(x,y)}-1 \sim x f(x,y) \ln(a)$ $1-\cos\left(f(x,y)\right)\sim\frac{\int_{-2}^{2}(x,y)}{2}$ $(1+f(x,y))^d-1\sim df(x,y)$

 $\lim_{(x,y) \to (x_0,y_0)} f(x,y) \longrightarrow 0$