CONTINUIDAD I

ELERICIOS:

1) SEA
$$E = C([o,1])$$
, son do;
RECORDAN PHE dos $f(f) = 11 f - 11 bo$,
CAN $11 h 1 |_{\infty} = maix | hxu |$
 $\times \in [o,1]$
 $\Rightarrow \times ATISFACE$
 $11h + h' 1 |_{\infty} \leq 11 h' 1 l_{\infty}$
 $\times \in S : E \rightarrow E, S = f^2$

SED 5: E > E, S, S, f) =
$$\int_{2}^{2}$$

(S, f)(x) = \int_{2}^{2} (x) · \int_{2}^{2} (x) · \int_{2}^{2} do (4, fo) (x)
VERMOS PIK S & COUJ. = \int_{2}^{2} do (4). H
SED \int_{2}^{2} EF. SED (20

$$\frac{\partial \infty \left(\leq_{f}, \leq_{f} \right)}{= \max \left(\leq_{f}, \leq_{f} \right)} = \prod_{f}^{2} - f_{0}^{2} \prod_{f} \infty$$

$$= \max_{x} \left(\leq_{f}, \leq_{f} \right) = \prod_{f}^{2} - f_{0}^{2} \prod_{f} \infty$$

= max (| /x) -fex | /xxt fex | < | de | + | fax | < | 2 | 2 | ba + | 4 | 0 | do (1, fo) = nf-fot fo Nor + nfo Noo € 11 1- 10 non + 2 n fo hoo = 2(1,40) (do (l, fo) + 211 fo Nos) do (l, fo) do (f, f) -50 => S GS CONTINUA

MAS PRECISONENTE: SEA EXO. 560 d: 12/20 ->12/ 0, (d+2112h).d (, ava, that cand) social ocal) 3 2 (6 E) 19-01 => da (d, b) L& IMPLIO do (5/1), 5/4)) LE 2) SED J2 E -> E', SED QEE, Y SER MONEE'. e sup a pp asudo e e:

(3F) (3F)

$$f(3|a,d) \subseteq 3|A|a, 2)$$

* SUP J(a) ES UN PRO AKUDO DE É; (3r) 3 (Ja,r) = 3 (Ja)? + 65 cour eu a su [3 da,r) J(3(a,d)) = {J(a)? = 3 [Ja,r) xe, d,b,a, Ld => J(b)=J(a) "Jes boc ette en a"

3) SED J: E -> TR. ENTENES

LES CONT SIN / FOCER)

VX:= {XEE: JXILA}

XXEE: JXILA]

(Reformation):

Sea
$$G \subseteq Y$$
 considering

The primarian are to the prima

 $\langle -\rangle B(x_0, \epsilon) \subseteq f^{-1}(\sqrt{x_0}-\xi)$ $\frac{1}{3}(3(x_0, \xi)) \subseteq (\sqrt{(x_0)} - \xi, +\infty)$ $\frac{1}{3}(x_0, \xi) \subseteq (-\infty, \sqrt{(x_0)} + \xi)$ (=> 3(x0,5) \(\frac{1}{-}\) \(\-\alpha\) ne: 34 (26x) $3(x_0,d) \leq 0$ EXISTE S. DEF DE ABIETTO

in => in como Im ES PRO

AKND DE E, + ES GONT EN IM

i) => in PENSAR PARA CL JUEVES