$$F_{\text{eso}} = Sin \frac{1}{x} \quad x \neq 0$$

$$= 0 \quad x = 0.$$

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$$P_{\text{eso}} = Si$$

 $|\mathcal{A}| \leq n \mathcal{G}, \quad |\mathcal{A}| \leq (2n)^{2} |\mathcal{A}| \leq$ but /2(m)/=1. ____ a contradiction. to those as Goil of: 7 as Goil. $CE[a,b] \iff Aa ellow reg.$ $\{\chi_n\}$ \longrightarrow $\{\chi_n\}_n \longrightarrow \{\chi_n\}_n \longrightarrow \{\chi$ Mont: 2 & De cont. at 1=c. De Sant - c. Sain: Sfrant - fes. For 670, 3 870 n.7 1x-c/< => /\$(1)-\$(1)< €.

MIDNE, on DE-Park Fred o.g. $|x^{-1}| \leq x \leq x \leq x$ (1)=> \f(n)-z(e)/ce, 4n>N. COUNDARY, For any son -> f(Nn) -> f(C). Aim: 7 en cont. It r=c. Suppose que mot cont. etc. From $\exists e > 0$ of $\exists x = 0$.

From $\exists x = 0$ with |x - c| < S of $\exists x = 0$.

The half |x - c| = 0. 8=1; 3 x, E (c-1, c+1)

$$8 = \frac{1}{2}, \exists x_2 \in \{c - \frac{1}{2}, c + \frac{1}{2}\}$$

$$4 | f(x_0) - f(c) | \ge \varepsilon_0.$$

$$S = \frac{1}{2}$$
, $\exists x_n \in (c - \frac{1}{2}, c + \frac{1}{2})$
 $S = \frac{1}{2}$, $\exists x_n \in (c - \frac{1}{2}, c + \frac{1}{2})$

John a roop. In
$$\int_{n}$$
.

Dut $\{F(n)\}_{n}$ $\downarrow F(c)$.

 \vdots β \longrightarrow a contradiction.

 $f(x) = \frac{1}{2} \cdot x \in \mathbb{R}.$ For no whose cont. \$ 7 kc and at x=c ETR-Q. Set a resp. of national tro. fr. o.t. Pro---- $\Rightarrow \underbrace{\mathcal{F}(r_n)} \longrightarrow \mathcal{F}(e)$. Assarag Kan -? be cont. It n=d f Q. get a reap. of situational no. I sont

 $\mathcal{E} \longrightarrow \mathcal{E}$. $f(g^{\nu}) \longrightarrow f(g)$ · noisibilities $\frac{2(n)}{2} = \frac{3}{2} \times 10^{-10} \times \frac{10}{2} = \frac{3}{2} \times 10^{-10} \times 10^{-10} = \frac{3}{2} \times 10^{-10} = \frac{3}{2} \times 10^{-10} \times 10^{-10} = \frac{3}{2} \times 10$ ote plao. The sas p 1. More that of on cont. It o. Fix 870. 176) - HO)/ $= \frac{1}{2} |x| = \frac{1}{2}$

NED. = /24)-260)/<E -8=:3 /x/ E. 2. Prove that 2 as Durcont. る、イラントウ、 A & Be and Be CE 9 (C#9). \mathcal{A} $\mathcal{P}_n(\in \mathbb{R} - Q) \longrightarrow \mathbb{C}$. $\mathcal{F}(r_n) \longrightarrow \mathcal{F}(r)$ - not possible. · Function com? on I!

 $F(x) = \begin{cases} Sentt x & x \in \mathbb{Q} \\ 0 & x \notin \mathbb{Q} \end{cases}$

Fund. which on cont. only of:

- Raise har old

- Raise har old