FABULOUS HALF => fabulous At of size 3

() FAB HALF is N'

A additionly for a VEJ inHonce is a fabrilous set of size 1/2 A volities can checkin polynomial time thank sum of 12 front sides = \$ and rum of & lack sider 2 1/2

(2) FAISHALE IS M HOSE

PARTITION EQUAL EP FAISHALF

Reduction: Given XI... XIN ON INJUST to PARTEOUAL

led ar'= xi' and hi= 25 - ar' be from and back of each show will $S = \frac{3}{5}Xi' = \frac{5}{5}qi'$ $S = \frac{3}{5}hi' = 2S - S = \frac{5}{5}$

reducts in polynomial In

YEI (NHONCE of MIZIBOUAL =) subred FOF & integers which sum to &

Consupposed by
$$\frac{5}{101} = \frac{5}{2} = \frac{5}{101} = \frac{5}{2} = \frac{5}{101} = \frac{5}{2} = \frac{5}{2}$$

$$\frac{5}{101} = \frac{25}{101} = \frac{11}{101} = \frac{5}{101} = \frac{5}{2} = \frac{5}{2}$$

$$\frac{5}{101} = \frac{11}{101} = \frac{11}{101} = \frac{5}{101} = \frac{5}{101}$$

: YEs inHana of FABHALF

Simul $h_1' = \frac{25}{n} - x_1'$ $\xi h_1' = 5 - \xi a_1'$ $\xi h_2' = \xi \xi \xi \xi$

pothty x' using ai and ref not includy ai = YEI (nHOL of MAREGY)

h) lenapsul (with $W=\frac{\pi}{2}$ $V=\frac{5}{2}$ were $1=\frac{1}{2}$

0 (n#13)

c)
Algorith in part b is not polynomial in size of innet
prends polynomial

have FAISHALF rannel be wired in polynomial firms would be prevely promail firms which by 14/3

have not prom 1=N1?