- 28. GIVE A RECURSIVE DEF OF EACH OF THESE SETS OF ORDERED PAIRS
- a) S= \{(a,b)| a \ \epsilon \epsilon \, b \ \epsilon \, \end \ a \ \epsilon \eppilon \eppilon \epsilon \epsilon \eppilon \eppilon \epsilon \epsilon \eppilon

Buse Case: (1,2), (2,1) ES

RECUESIVE CASE EITHER A OR 3 15 000

FF $(a,b) \in S$ then $(a+2,b) \in S$ and $(a,b+2) \in S$

(1,2) - (3,2) =5 ; (1,4)-5 -

BL) a) GIVE A RECURSIVE DEF OF THE FUNCTION ONES(S), which counts the NUMBER ONES IN A BIT STRING 5

BUSE CASE: ones(x) = 0

RELUESIVE CHSE: ST XE & and WES,

there ones (Qx) = ones(w) + x where x=1 or 0.