```
lu G = (A &B, €).
   IN(X)( > |X| , for all X \( A
                                                      (1)
   a has matching M, with IMI = IAI
                                                      (2)
   show (1) =) (2) voing induction on \alpha = |A|
                                                     (I.B.)
   (1) => (2) for some |A| = a > 1
                                                     (I.H.)
   show (1) => (2) for a>1
                                                      (I.S.)
   we know (1) holds.
  ve'd like to remove vet A, without destroying (1)
· either \forall X \subseteq A : |N(x)| > |X| or
                                                  ((1)
        \exists X_{\circ} \subseteq A : |N(X_{\circ})| = |X_{\circ}|
                                                    (C2)
· (C1): choose orbitrary × (of (a)), remove.
         now (1) holds and (IH.) => exists M.
         add e to M.
split graph in two smaller and apply I.H twice
· (C2): 6' = G(X, +N(X)), G"= G[A(X, + B\N(X))]
         clearly (1) holds in G'.
         what about in a"? let XCAX, show [N(X)] > IXI.
         |X| + |X_0| = |X \vee X_0| \leq |N(X \vee X_0)| = |N(X_0)| + |N(X) \setminus N(X_0)|
 |N(X_o)| = |X_o|
                           \leq |N(X) \setminus N(X_0)| = |N(X)|.
         |\chi|
  <=>
                           6 B N(X) <=> 6 B N & N(X)
          use (I.H.) on a' and a"
          lel M = M' UM' in G, [M] = 1A1.
```