```
(a). Since this trueth table has three entries of E,
      始雙 ¬pv¬q
      42 Z PV-9
      P3 = TPVP
   The resulting of in CNF is therefore.

(1PV-19) A (PV-19) A (-PV9)
     41= 7pv-9vn
      CHI = -1 PV & V-10
     43 = 7pvqvp
     442 PV79VP
      45 = PV9VP
   The resulting of in CNF is therefore
    (IPV-19VB) V (IBNAN-16) V (IBNANLO) V (BN-14NLO)
       v (brtro)
   Cha= 20 NJ4 NJ8
    YEZZ TPVQV790
    432 PV-79V-70.
    Yeyz proqum
   fr = p v & v - 10
The resulting of in CNF is therefore
(ipv-4v-r)n(pv4v-r)n(pv-4v-r)n(pv-gvr)n(Bv4v-r)
```

IMPL-FREE = - (-) pv (-(4v (pv4))))

(NNF

L

enf = pn (4n (pv4))