| | Α | В | С | D | Е | Y | PRODUCT |
|---|-----|-----|-----|---------------|-----|----------|---------------|
| | 0 | 0 | 0 | 0 | 0 | 1 | A.B.C.D.E |
| • | 0 | 0 | 0 | 0 | 1 | 1 | A.B.C.D.E |
| | 0 | 0 | 0 | 1 | 0 | 1 | A. B. C. D. E |
| • | 0 | 0 | 0 | 1 | 1 | 1 | A.B.C.D.E |
| | 0 | 0 | 1 | 0 | 0 | 0 | A. O. C. |
| | | | | | | | |
| | 0 | 0 | 1 | 0 | 1 | 0 | A.B.C.D.E |
| ~ | 0 | 0 | 1 | 1 | 0 | 1 | A.B.C.V.Z |
| | 0 | 0 | 1 | 1 | 1 | 0 | 5 5 |
| | 0 | 1 | 0 | 0 | 0 | 1 | A.B.C.D. E |
| | 0 | 1 | 0 | 0 | 1 | 1 | A.B.C.D.E |
| | 0 | 1 | 0 | 1 | 0 | 1 | A.B.C.D.E |
| | 0 | 1 | 0 | 1 | 1 | 1 | A.B.C. D. E |
| | 0 | 1 | 1 | 0 | 0 | 0 | |
| | 0 | 1 | 1 | 0 | 1 | 0 | _ |
| | 0 | 1 | 1 | 1 | 0 | 1 | A.B.C.D. E |
| | 0 | 1 | 1 | 1 | 1 | 0 | |
| | 1 | 0 | 0 | 0 | 0 | 1 | A.B.C.D.E |
| | 1 | 0 | 0 | 0 | 1 | <u>'</u> | A.B.C.D.E |
| | 1 | 0 | 0 | 1 | 0 | 1 | A B.C. D.E |
| | 1 | | | - | | | A.B.C. D.E |
| | 1 | 0 | 0 | 1 | 1 | 1 | |
| | 1 | 0 | 1 | 0 | 0 | 0 | |
| | 1 | 0 | 1 | 0 | 1 | 0 | A.B.C.D.E |
| | 1 | 0 | 1 | 1 | 0 | 1 | A |
| | 1 | 0 | 1 | 1 | 1 | 0 | |
| | 1 | 1 | 0 | 0 | 0 | 1 | AB.C.D.E |
| • | 20/ | 001 | 000 | ~~ | 001 | 1 | A. B.C.DE |
| | 1 | 1 | 0 | 1 | 0 | 1 | A. B.Z. D.E |
| | 1 | 1 | 0 | 1 | 1 | 1 | A.B.Z.D.E |
| | 1 | 1 | 1 | 0 | 0 | 1 | A.B. C.D.E |
| | 1 | 1 | 1 | 0 | 1 | 1 | A.B.C.D.E |
| | 1 | 1 | 1 | 1 | 0 | 1 | A.B.C.D.E |
| | 1 | 1 | 1 | 1 | 1 | , i | A.3.C.D.E |
| | • | | | | | r i | 1 |

= ABCDE+ABCDE = A.B. C.D.E + A.B. C.D.E = A.B. C. D. E + A.B. C. D. E = A.B.C.D+[EDE]1 = A B.C.D[EJE] = A.B.ELC.D+C.D7 = A.B.C.D $= \overline{A} \cdot \overline{B} \cdot \overline{C} \cdot \overline{D}$ = A.O.C.D.E + A.B.C.D.E - A.B.C.DIE = A.B. T. D. D. => A. B. C. D + A. B. C. D. E $= \overline{A} \cdot \overline{B} \cdot \overline{C}$ = A.O.CLO+BE] = A · B · C · D · E + A · B · C = A.B. C | D+ E7 = A. B[C. D. E) + C] = A.B.C.D+A.B.C.E+A.B.C.D.E [(· x + C] = A.D[(.D+ (.E+ C.D.)) [D.E+C] 1 2.0+ E(T+\$.0)] = A.BID.E+Cl [(0+5)3+0.5] = A.B (C.O + E.T. + E.D) = A.B.D.E + A.B.C = A.B.C.D+A.B.C.E+A.B.D.E => A.B.D.E+A.B.C+A.B.C.D+A.B.C.E+A.B.D.E = A.D.E (BAB) + A.B.C.D+A.B.C.D+A.B.C.E = A.D.E + A.B.C + A.B. C.D + A.B.C.E = A.D.E + AC(B+BD) + A.B.C.E = A.D.E+ABC+ACD+A.B.C.E = A.D.E+AC(B+BE)+ACD - ADE +ABC + ACE + ACD =>ADF+AGC+ACE+ACD+ABCDE => ADE + AC (B+ 868) + ACE + ACD => A OE + A OC + A COE + A CO = Z DE + ABC + AC(DE+E)+ACD => ADE +AGC +ACE + ACD + ACD AT (5+8) => AOE+ABC+ACE+AC 1 = ADE+ABC+AC(E+1)

```
= A BCDE + ABCDE
   = ADE+ABC+AC
                               ABCD
   = AOE + AC (B+1)
   = ADE +AT +ABC
                            = ABCDE+ABCDE
                            = ABCD
                            = ABCD+ABCD
  => ADE+AC
                             = ABC
                               = ABCDE+ABCDE
                               = ABCO
= ABCDE + ABCDE
                              => ADT DE + AB TDE + ABCD
=> ABCD
                              = ABTOF +ABT (ØE+D)
 ABCDE+ ABCDE+ABCD
                              - ABODE +ABOE + ABOO
                              = ABT(OF+E)+ABTO
  ABC( DE+D)
                              = ABTD + ABTE + ABTD
  ABLE + ABLD+ABCDE
         ABC (D+ DE)
                              = ABT (D+D)
  ADCE + ABC D+ ABCE
                              = ABT +ABTE
   ABC (EFE)
                              = AST(E/1)2
   ABC + ABCD
                             = ABC
  = ABC
                  = > AB
                               => ADF +AC+ASCD+ATDE+BLDE+AB
                                  ABCO + AB + BCOF + ABOE + ADE+AC
= ABCDE + AGCDE
                                                DE (#5+A)
 - ABID
                               =ABCD + AB + BCOE + BDE + ADE + AC
= ABCDE + ABCDE
  = ABCD + ABCDE + AB
                                                     A BO DE + ABCOE
   = ABD( C+RE)+AB
   = ABCD + ABDE + AB
                                                     ASED
  => ABC D+ ABOE +AB+ AOCDE
                              => AGC D + AB + BCOE + BDE + ADE + AC + ABCD
  = ABCD+BDE (A+AC)+AB
   = ABCD + ABDE + BCDE+AB
                                 ABC(DAB)
                               => A G C + AB + B C O E + TO DE + ADE + AC
                                  A(150 +0)
```

$$= A\overline{C} + AB + \overline{G}CD\overline{E} + \overline{B}D\overline{E} + \overline{A}D\overline{E} + \overline{A}C$$

$$= \overline{C}(\overline{A}+\overline{A}) + AB + \overline{B}CD\overline{E} + \overline{B}D\overline{E} + \overline{A}D\overline{E}$$

$$= \overline{C} + AB + \overline{B}CD\overline{E} + \overline{B}D\overline{E} + \overline{A}D\overline{E}$$

$$= \overline{C} + AB + \overline{B}D\overline{E} + \overline{A}D\overline{E}$$

$$= \overline{C} + AB + \overline{B}D\overline{E} + \overline{A}D\overline{E}$$



