

## Unit 2 Solutions

## Unit 2 Problem Solutions

2.1 See FLD p. 731 for solution.

2.2 (a) In both cases, if  $X = 0$ , the transmission is 0, and if  $X = 1$ , the transmission is 1.

2.3 Answer is in FLD p. 731

2.4 (a)  $F = [(A+1) + (A+1)] + E + BCD = A + E + BCD$ 

2.5 (a)  $(A+B)(C+B)(D'+B)(ACD'+E)$   
 $= (AC+B)(D'+B)(ACD'+E)$  By Dist. Law  
 $= (ACD'+B)(ACD'+E)$  By Dist. Law  
 $= ACD' + BE$  By Dist. Law

2.6 (a)  $AB + CD' = (AB + C')(AB + D')$   
 $= (A + C')(B + C')(A + D')(B + D')$

2.6 (c)  $A'BC + EF + DEF = A'BC + E(F + DF)$   
 $= A'BC + E(F + D) = (A'BC + E)(A'BC + F + D)$   
 $= (A' + E)(B + E)(C + E)(A' + F + D)$   
 $= (B + F + D)(C + F + D)$

2.6 (e)  $ACD' + CD' + AC = D'(AC + C') + AC$   
 $= D'(A + C') + AC$  By Elimination Theorem  
 $= (D' + AC')(A + C' + AC)$   
 $= (D' + A)(D' + C')(A + C' + A)$   
 By Distributive Law and Elimination Theorem  
 $= (A' + D')(C + D')$

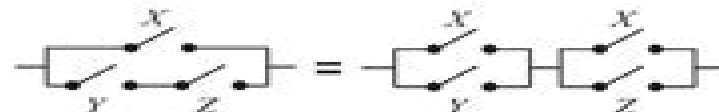
2.7 (a)  $(A+B+C+D)(A+B+C+E)(A+B+C+F)$   
 $= A+B+C+DEF$   
 Apply second Distributive Law twice



2.8 (a)  $[(AB)' + CD]' = AB(CD)' = AB(C + D')$   
 $= ABC + ABD'$

2.8 (c)  $((A+B)C')(A+B)(C+A)'$   
 $= (A'B + C')(A+B)CA' = (A'B + C')A'BC'$   
 $= A'BC'$

2.9 (a)  $F = [(A+B)' + (A+(A+B)')](A+(A+B)')'$   
 $= (A+(A+B)Y)'$   
 By Elimination Theorem with  
 $X = (A+(A+B)Y) = A(A+B) = A'B$

2.2 (b) In both cases, if  $X = 0$ , the transmission is  $YZ$ , and if  $X = 1$ , the transmission is 1.

2.4 (b)  $Y = (AB' + (AB + B))B + A = (AB' + B)B + A$   
 $= (A + B)B + A = AB + B + A = A + B$

2.5 (b)  $(A' + B + C')(A' + C' + D)(B' + D')$   
 $= (A' + C' + BD)(B' + D')$   
 [By Distributive Law with  $X = A' + C'$ ]  
 $= A'B' + B'C' + B'BD + A'D' + CD' + BDD'$   
 $= A'B' + A'D' + C'B' + C'D'$

2.6 (b)  $WX + WYX + ZYX = X(W + WY + ZY)$   
 $= X(W + ZY)$  [By Absorption]  
 $= X(W + Z)(W + Y)$

2.6 (d)  $XYZ + W'Z + XQ'Z = Z(XY + W' + XQ')$   
 $= Z[W' + X(Y + Q')]$   
 $= Z(W' + X)(W' + Y + Q')$  By Distributive Law

2.6 (f)  $A + BC + DE$   
 $= (A + BC + D)(A + BC + E)$   
 $= (A + B + D)(A + C + D)(A + B + E)(A + C + E)$

2.7 (b)  $WXYZ + VXYZ + UXYZ = XYZ(W + V + U)$   
 By first Distributive Law



2.8 (b)  $[A + B(C' + D)]' = A'B(C' + D)'$   
 $= A'B' + (C' + D)' = A'B' + CD'$   
 $= A'B' + A'CD'$

2.9 (b)  $G = [(R + S + T)'PT(R + S)T'T]'$   
 $= (R + S + T)'PT(R + S)' + T'$   
 $= T' + (R'ST)'P(R'S)T = T' + PRS'TT = T'$

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