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



2.3

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) $AB + C'D' = (AB + C')(AB + D')$
 $= (A + C')(B + C')(A + D')(B + D')$

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

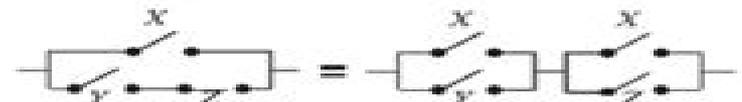
2.6 (e) 2.8 (a)

2.8 (c)

2.7 (a)



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 $X = A' + C'$ }
 $= A'B' + B'C' + BBD + A'D' + C'D' + BDD'$
 $= A'B' + A'D' + C'B' + C'D'$

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

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

(B) $(AC + C') + AC$
 $= D'(A + C') + AC$ By Elimination Theorem
 $F = (D' + AC)(A + C' + AC)$
 $= (D' + A)(D' + C)(A + C' + A)$
 $D)$ By Distributive Law and Elimination Theorem
 $(C = (A' + D')(C + D)$
 $+ (A + B + C + D)(A + B + C + E)(A + B + C + F)$
 $F = A + B + C + DEF$
 $+ Apply second Distributive Law twice$

ACD'	D
$+ C'D'$	E
$+ AC$	F
$= D'$	

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web measure each egg around at the widest point using a tape measure or a piece of string to use a piece of string take a piece of string and wrap it around the egg once mark with your finger the length of string that is needed to go around the egg once and measure it using a