Title: AOI Logic Analysis Worksheet CONCLUSIONS (A) Take the inputs, consider their interestions and thesi paints, and then events the exput B Pain Finaling the test points was much more tearns, but more it cases in the and. (D) Score us much, equations on as easier scur of they're not ich areca A+B = AB + ABThese will coloners les the same! 1/9/201 2.1.4 Circuit Simplication Boolean Algebra H-22 R 3 (3) $F_3 = \overline{R}T + (R+\overline{S})(\overline{R}+T)$ F3-0-000----F3 = RT + RR + RS + RT +TS F3 = T(R+R)+RR+RS+TS Th.16 Th.17 Th.18 F3 = T + RS + TS X+XY=X+Y X+XY=X+F X+XY=X+Y X+XF=X+F $F_3 = T(1+S) + \overline{RS}$ $F_3 = T + \overline{RS}$ Fy = PS + PQS + PQS = P(s+as) + Pas = P(S+Q) + PQS = PS + PQ+PQS = PS(1+Q) + PQ Bodeur Theorems Summary = PS+PQ = P(S+Q) 1) X.O=0 9) X = X 16) X+XY =X+Y) 2) X · 1 = X

10) X. Y = Y. X } Communative 17) X + XY = X+Y Consensaus 3) X. X=X 11) X+ Y=Y+X J 18) X+xy= x+y / Theorem 13) X+(Y+2) = (X+Y)+2 } Associative
14) X/V. - . 4) X·X=0 19) x+xy=x+y S) X+0=X 14) X(Y+2) = XY+X2 G) X+1=1 distruction 15) (x+y)(W+2) = XW+X2+YW+Y2) 1000 7) X+X=1 11/7/24 8) X+X=X

Signature: Witness:

Date: /9/24

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Date:

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Team Members: