(4) Adempohnay! A op B of C x+0= 2-((A13)+C) (A+(B+C)) (3) Commula hivry: > xy=yn

> xy=yn Associativy: - (n+y)+3=n+(y+3)]

= (n-y):3=n+(y+3) 1 0 Comple mentation > n·n す 0 (2) is tributivity + (2) = (2) + (2) > x+y+3 = (x+y) (neg) Ain=n M-15 (n+n).1 (n.n)+0 (n·n)+(nn) n (n 1 n) > (nen), (nen)

ney-3 Quality Principal 211=1

Boolean alg Page 1

(r) (r). 1いいし (n:1) (n:n) 1 (212) 3 Advorption: CA + AOB = A CPC.A9C A. (A13) 9 A c.(C&B). C , x. (nty)= x 3 2.21 my 3 2 Elle Morgan's Law  $(xy)(\overline{x},\overline{y}) = 0$   $(xy) + (x\overline{y}) = 1$   $(xy) + (x\overline{y}) = 1$   $(xy) + (x\overline{y})$   $(xy) + (x\overline{y})$ 

Consensus the overn

ny tratydz ny tra (n+n)=1 1 ny 1 n2 + y3(1) , my 1 m3 1 y 3 m 1 y 3 m (1+3)=1 > m(1+3) + ~3(1+4) (1ty) of I y ny p ng dy duality Principal, likeral Same , AND OR ( interchange + Constant (1,0) of linkerchange (a15) = 619) = a.b = 6.a a1a31 3 a. a, 0 duality & Compilement y dikral Some - Interchargable NOT, OR, 1,0 Ty y Conflered y Try DT. y y N.y.

Dual y Tr. y

Ny Complements 7. y 7 7 y Same

D , nz + nz + yz

$$\frac{Q}{ab} = \frac{ab}{ab} + \frac{ab}$$