lecture# 5 steps complement of a function Take dual of the function then complement each ateral Q F = xyz + nyz → (x+y+z)(x+y+z) Q G= (ā+bc) d+e → (α•(6+9)+d.e. -> F(n,y) then titerals are AB+BC+CA = 5 literals A,A,B,E,E Bolean frunction.

The representation of 10 gic gate by interconnecting then is called bolean frunction. gate is output of ones logic get These work gates got all called winted building blocks of combinational avoid

Combinational logic circults CLC whose output at any instant in the depends upon only on workpation of it's -> No geedback. -> 9 mediate effect of input on outfut. Representation of C.L.C. Bolean Algebra
Diruth table (3) Logic Mag You. Expression Simplification. AB+ ACD+ABD+ACO+ABCO = AB + ABCD + AC (D+D) + ABD ->
= AB + ABCD + ABD + AC > ABSONTS = AB(1+CD) + ABD + AC = AB (+C)(1+D) + ABD + AC = AB + ABD + AC = B(A +AD) + AC = B(A+A)(A+D) + AC 2 AB+BD+AC 5 Literals

Zz (Atc). (B+D) Qual 2 = (A.C) + (B.D) 2 A.C + BD = A.C + BD NOR Gate KZAB XOR or's one if is one. Nand or Nor are of conversal gates