Week 4'. Lecture 1 You have 8 bits of "signed" Exeruse: 2 comprement binary representation Q.1: What is the highest and the lowest numbers

and their representation (2) Write (-6) tri (3) Signed 25 Complement (8 bits)

(18) write (+13) in Signel 25 comprement (8118)

1 1 1 1 1 1 1 (+177) 1 1.1.1 1 1 1 1 2 11 A Complement 1 a - -1000000

 Boolean A1gebon

1 herrse Brile"

$$A+B=B+A$$

$$A\times B=B\times A$$

 $(B+C) = (A \times B) + (A \times C)$ A+(B+c)=(A+B)+C((Bx()= (AxB) XC

at more

intersedun

(ommutalive Associative 3 Distributivit Ax(B+()= (AxB) + (Ax)  $A + (B \times C) = (A + B) \times (A + C)$ 

A + 
$$(3 \times () = (A+B) \times (A+C)$$

B Intersection