Multiplication Note: 2n bith productions So extend MSB water o 0 1 1 0 1 (x) 0 -1 1 -1 0 Take 2's Comp4-0000000000 can bits 1110011 0000001 1110110010 (-78)

To verify the answer take 21s complement for -78.

CARRY SAVE ADDITION!

- right of digital adding method
- week to efficiently Compute the som
of three or more binary numbers.

## Add - ABC

101101 A 101101 X B 101101 X X C 10000011 SI 0101400 X CI

## Add -> DEF

101101 × × × D
101101 × × × × F
101101 × × × × F
10000011000 S<sub>2</sub>
001110000 X C<sub>2</sub>

DEF CBA

S2 C2

S1 C,

S3 C3

S4 C4

POSUIT

Sups: Add -> Sicist

1 10000011 81

0 1111000 x C1

1 10000011000 x C1

1 1010100011 83

0 0 0 1011000 X C3

899? Add -> 53 (3 (2

Ops: ned sa ca

1011010011 SA 1010100000X CA 1011000010011 ->> 283