## Plan of Action

stops

selector variable For Arithmetic & Logic Circuite.

i.e., choose arithmetic or logic chet

for output

50 2) selector For AND or XOR

5, 3) Selector For A: or A; in

52 4) Selector For Bi on e

5) Equation for C [Intermediate Variable]

6) 11 for Cin [Input carry determined by control bits]

Get relector var expressions > 3 to 8 active
low decoder

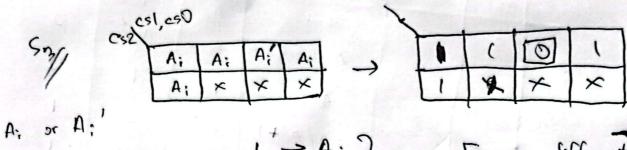
Use Quad 2 to 1 for multiplexing

Use 9 bit adders.

	062	test 1	0001	Functions	x:1	Y: \	Cin
	-	0	0	A-I	Ai	1	0
	D		4	A-B- VA+B'	A;	Bi'	0
	0	0	0	A-1	A	1	0
	0	111		-A/A'+1	A?	0	1
	1	0	0	A - B/A+0/+1	Α;	Bi'	1
	(1	0	1, 1	AB	A, B;	0	0
	1	1	0	A DB	ABB	0	0
	الراجا	1 .	11	A DB	ABB	0	0

Arithmetic Unit 2 Subtract with Borrow, Negation, Subtraction operations (Decrement, Inputs: (For 3) 53 (sdection) 70000 C -> selection 1111/ Quad 2 to 1 MUX Bosieally use (For 1) control input to adder. c > Expressions -aniables. The numbers imply operations.





we will use decoders to control import.

 $S_2$   $O \rightarrow B_i'$   $S_2 = D_i D_i$  selects  $B_i'$  or C

c = D3

Selects C variable value

1 -> 1111(c)

0 -> 0000(4)

Soll > Selector For MOR & AND.

1					4
1	×	×	×	×	O > AND
	×	٥	1	×	1 -> XOR

5/ > Solector For logical or arthmetic operation.

( ) Arithmetic