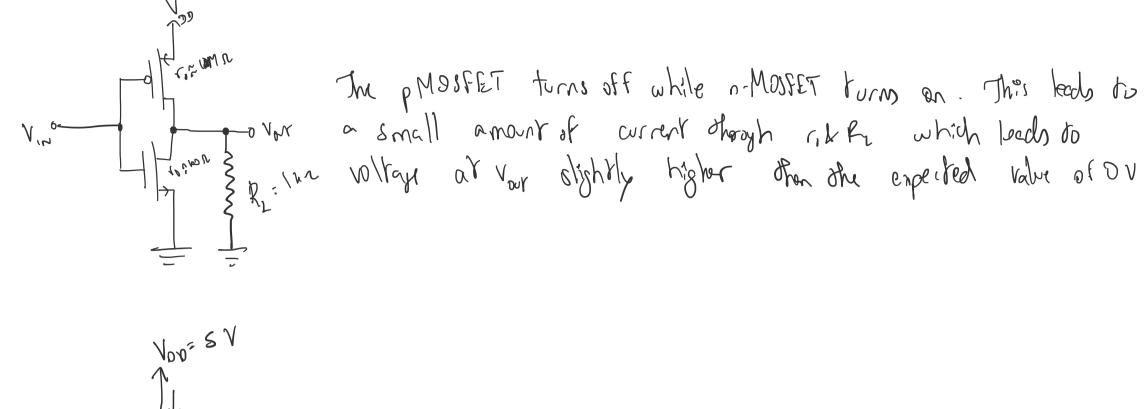
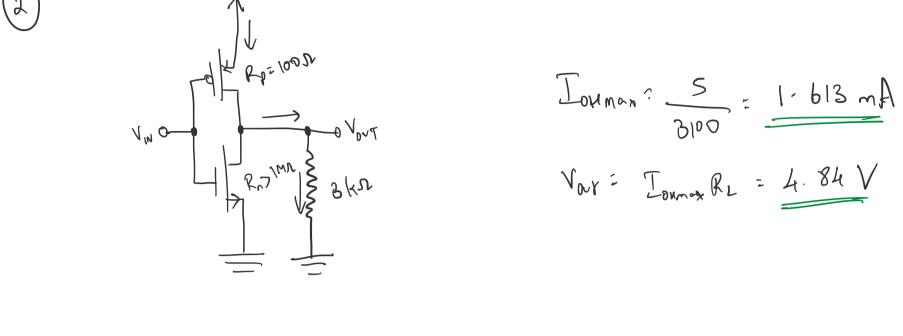
The n-MOSFET turns of while p-MOSFET turns off, ledy to a vollage divider

Vino

Vin





Vour: Vone tenu

Vor: Se-+667×107)

0.8 x \$ = \$ e - tol6.67 x 07)

ti 3 ns

(3)

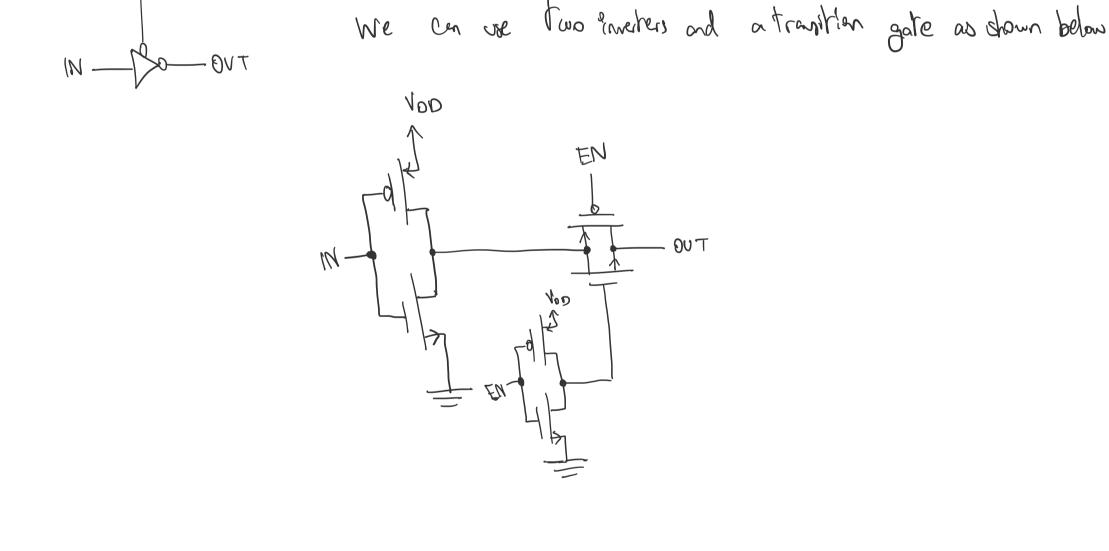
CMOS décrits dynamic pouver has two components:

; R=100s2, G=150pF

Supply voltage through the output capacitance to ground (2) short circuit pour s she pour consumed when current flows from power apply

. O switching power > the power consumed due to switching ownest that flows from

straight to grand when both the PMOS A NMOS are simultaneously



We can use a multiplexer with an enable and select inputs

When enable is HIGH, the signal acropading to the binary formos select inputs is say to the other EN SEL DO DI D2 --. D ... OUT

O × × × × × O

(0	90	λ	×	>	d O
1	1 (101)	X	91	K	×	21
1	T (P10)	>	*	da	×	d 2
:	; ;			•	;	1
1	n-1	χ	×	×	9(u -1) ; × ×	d(n-1)
'	'					•

endmodile; (8) /X: 2, POXOII

solver Z trapho;

module Vrmitiplex

input 20,01, E,

reg [(5:0] A; reg [s.o] B Y= {3{B}, A[13.8], 4'60} number of bits in 7= 12+6+4= 22

assign Z = (E?D1:D0);

reg [31:0] A [0:127]; assign B= A[4];