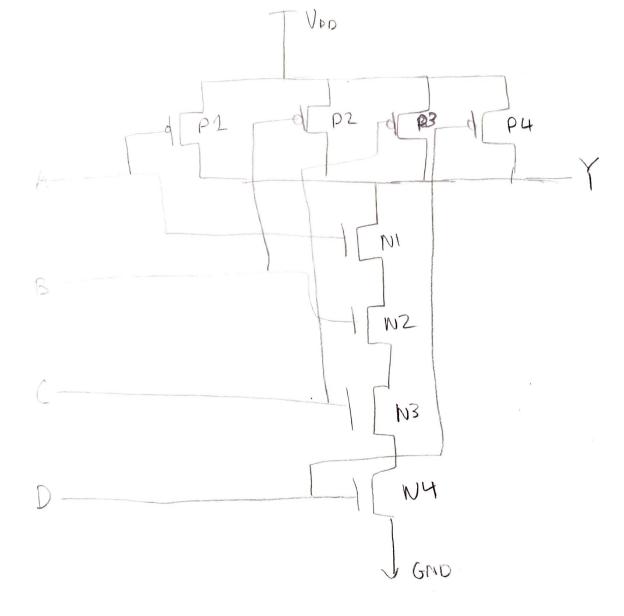
CSE220 Assignment 2

Michael Lee

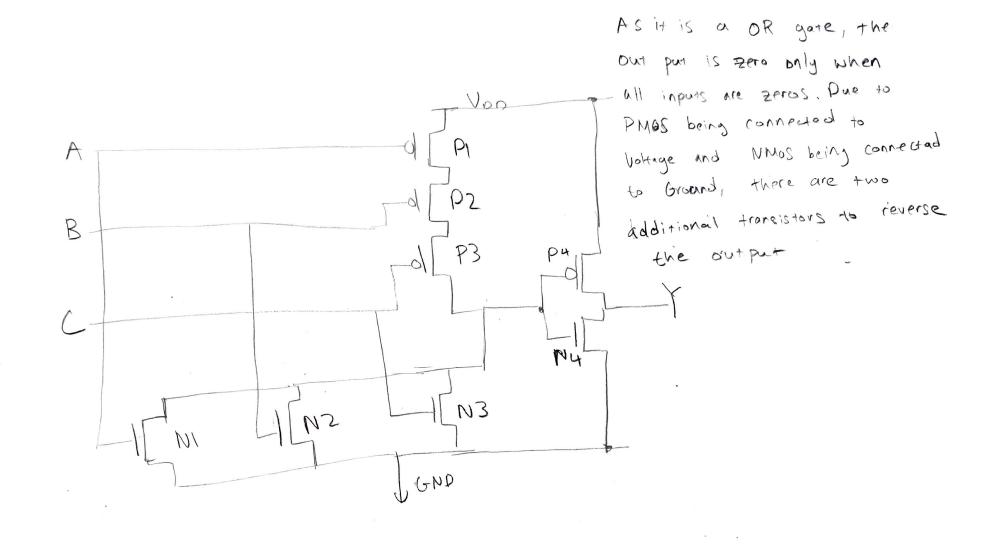
1 1 1 1 1. - 16 +9 ' 010000 - 27+31: 011011 001001 010111010 100110 molston - -4+19 000100 -> 111011 -> 111100 X11110D 010011 no 01erflow \$ 0 01111 - -32+3 100000 7011117 7 100000 110000 000011 no over Slow 100011 -- 16+-1 010000 -- 10/1/1->110000 001001 - 110110-11011 1110011 / austrava ou - -27+-310110117100100 7100101 011111 210000001 overflow Kooollo

			-	10.1		P3	D4	NI	NZ	N3	N4	Y
A	B		D	PI	P2	1	1	OFF	OFF	DFF	OFF	)
$\Diamond$	$\Diamond$	0	0	010	ON	011	ON		oFF	OFF	ON	
	0	0	١	ON	ON	0 11	OFF	off			OFF	
0	O	(	0	ON	ON	OFF	6N	OFF	OFF	ON		
0	0	1		010	ON	OFF	OFF	OFF	OFF	ON	011	
1000	\	0	O	010	off	ON	010	oFF	011	OFF	OFF	
0	1	O		ON	oFF	ON	OFF	OFF	oN	OFF	ON	
		1	0	010	OFF	OFF	ON	OFF	ow	6N	OFF	
0	1		1	ON	DFF	OFF	OFF	OFF	ON	ON	ON	\
0	0	0	0	OFF	ON	ONO	oN	010	OFF	OFF	OFF	1
1	v	0	1	OFF	ON	ON	off	ON	OFF	OFF	ON	1
	0	1	0	OFF	ON	OFF	ON	ON	PFF	ON	OFF	1
1	0			OFF	60	OFF	OFF	ON	OFF	ON	011	\
,		0	0	oFF	oF.F	ON	ON	ON	ON	DFF	OFF	\
			1	OFF	OFF	6N	OFF	6N	8 W	OFF	oN	\
\	(	0	0		oFF	OFF	ON	6N	8N	OW	OFF	\
\		-		off		,	+	0 W	ON	Wo	8W	0
(	(	(	1	OFF	off	OFF	OFF	017	101-			1

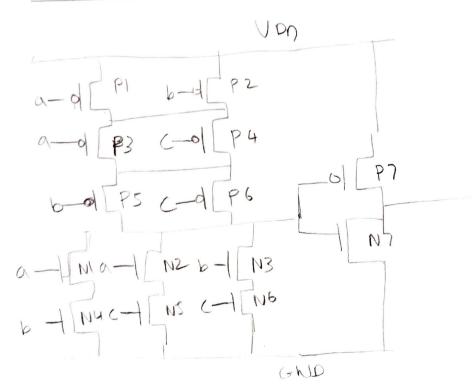


As it is a NAND circuit,
only when NMOS transistors
dire all on can a connection
be made with ground, hence
why NMOS transistors are in
series. If only 1 PMOS
transistor is on (an input of one
transistor is on (an input of one
transistor is a connection with
Voltage; hence why they are
parallel.

Λ	0	C	PI	P2	P3	NI	N2	N3	Y	124	14	
A	В	0	ON	01	ON	OFF	DFF	SFF	0	OFF	011	
0	0	1	610	010	OFF	OFF	OFF	011	1	ON	OPF	
0		0	ON	OFF	01	OFF	OW	OFF	. \	ON	OFF	
0	\	1	01)	of F	OFF	OFF	5N	010		ON	OFF	
0	0	0	PFF	010	OW	ON	OFF	OFF	\	ON	OFF	
	0	\	OFF		OFF	cvs	OFF	OW	\	ON	OFF	
	1	0	OFF	OFF	612	ON	011	OFF	\	ON	OFF	,
		1	OFF	OFF	OFF	- 011	on	ON		ON	OFF	
\							180					
												-
								*				



								0.4	P7	M	NS	N3	Nu	NS	N6	N7	0
A	\$	C	PI	P2	P3	PU	P5	,	1	,	OFF	off	oFF	OFF	oFF	62	0
0	0	0	OM	ON	ON	017	ON	9	OFF			OFF	off	ON	ON	ON	0
0	0	\	010	00	ON	OFF	011	OF					ON	off	OFF	612	0
0	1	0	ON	OFF	ON	011	OFF	ON	OFF		OFF		613	DN	ON	OFF	
	1		ON	off	OM	OFF	OFF	OFF	011	oFF	OFF	ON		off	OFF		0
0	,	^	OFF	6W	OFF	OW	6 <i>M</i> 3	011	OFF	011	011	OFF	OFF			-	
\	6	0	,		OFF	OFF	ON	OFF	01	ON	ON	OFF	OFF	ON	01)	OFF	1
	D		OFF	ON	6FF	on	OFF	011	ON	011	ON	01)	ON	OFF	OFF	OFF	
	(	0	OFF		-	OFF		off	010	ON	047	617	ON	ON	ON	OFF	
\		\	OFF	OFF	OFF	OFT	OFF	OFT									



With two or more inputs of 1s, it produces on output of 1, Else it produces 0.