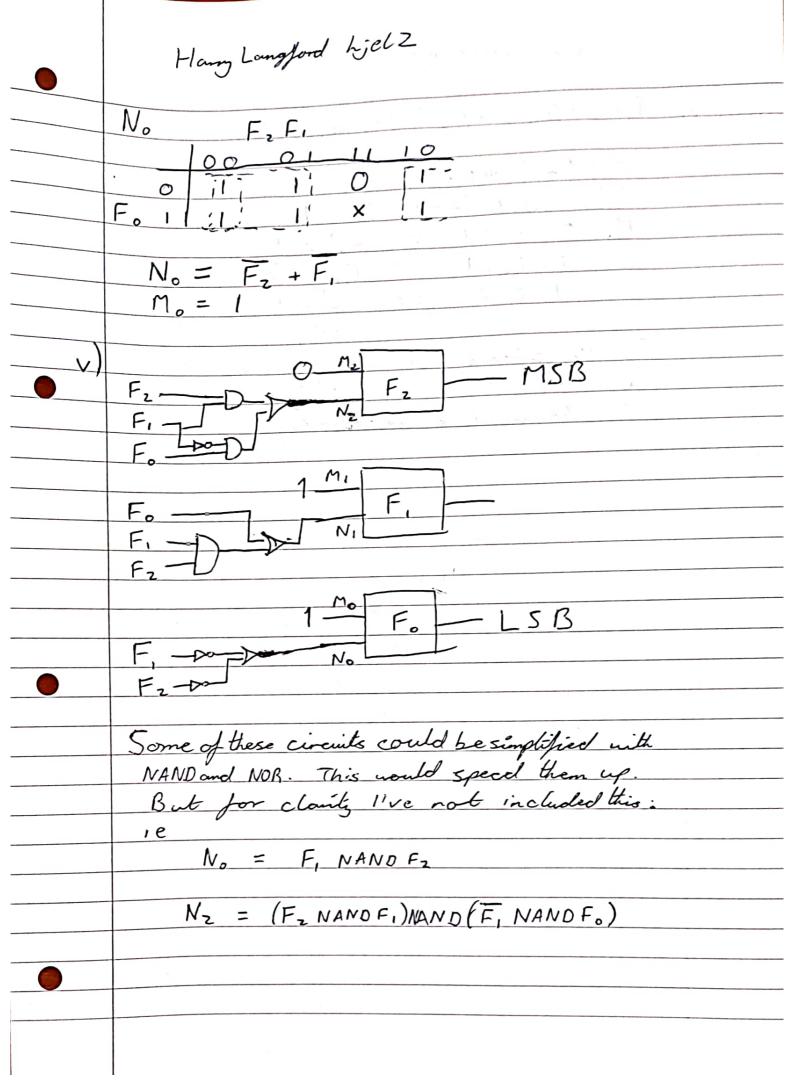
	Harry Langford hjel2					
	Paper 2		. 11 2 (5			
	Question 1.	all ad M. M.	. 13 I remove the			
/	, , ,		Lance 1			
a)	we could either us	e	374			
	M=0, N=0					
	or		1.35			
	M=1, $N=1$	011	11 1 1 1			
	11 01 00	C 1011	Nest 100			
b)	1 Duputs	Current State	01			
	Ø MN	9	\bigcirc			
	00	0				
	000000000	0	\bigcirc			
	0 10	0	1 1 1 1 1 1			
	1. of colors	· 1	(2)			
-	1 00	the second of the second	La oct			
	1 0 1	Comment of the				
	1 1	1	0			
	and the same of th	•	1.7 1.1			
	- M	19 19				
(c)	A Moore machine is app	roprate Since	the output is			
	only dependant on state					
	A THE STATE OF THE					
d)	Let there be 3 Plip	Plops FzF,	Fo where			
	Fz is the MSB	7.	11			
	Current State Imp		O Col			
	F ₂ F ₄ F ₆	FJF, Fo				
	000	0001	Fe and			
		010	2011			
	010	01-1	₹M			
	011	100	1			
_		101+	= , V			
	101	110	1 = 7			
	110	000				

	Hang Lang	aford hjel 2		· ~ ~ ~ }		
e	Carent Let		puts for	A.1		\
	Current State	Next State		we will		
	F.F.Fo	F, F, F_o	M2N2 4	M,N, M.N		
	000	001	00	10		
	001	010	001	= 11 11 = 11 1		
	OID	011	00	101		
	0011	100	01.	1 1 90		
	100	101	01	10 1		
3.7	101	110	01	11011		
	110	0 0 0	00	101 10		
		0	0 1	30		
E)	For the inputs	Mi: all M	i are e	either O or 1		
		or always lo				
	to como	te them 50 1	Ill not o	low K-maps	for	
	them.	ce quems				
	N. I F. E		N, = F.	F, + F, F	•	
	000) 0	$M_{-}=0$)	,	
	0 0	0 0 1	have or an	F. Marie Marce		
	F. 10 [I OX I	10 m - 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	aran Ar		
	N = 1	FFF	F	A = 0		
		T T wood all	1	sali sal	(10	
	N. F.	F	F1 > F1	F. i. de		
	100	01 21.1	10.4	L. sumer S		
	00	0 01	0	4 - 7		
	Fo OI II	1/ 0×	11			
	Wa	21.0	4			
	W.=	F ₂ F ₂ F	+ F-E	-		
-			0 1 2 1			
	N, =	F. + F. F.		7 1		
	M. = 1	011	1 ,	3		ř

 $M_1 = 1$



Harry Langford hjell

w)	The only invalid State is 111.
	12 1 C C C = 111
	18 1 Fg F, Fo = 111
	the next state is
- P	$M_{1}=0$, $N_{2}=1$ => $F_{1}^{2}=1$ $M_{1}=1$, $N_{1}=1$ => $F_{1}^{2}=0$
	$M_o = 1, N_o = 0 = 7$ $F_o' = 1$
	So the circuit well enter so to 101
	So the circuit well enter go to 101
	So the circuit is self starting.
	,
	I was to some in our summer was to be a single
	the man began to make the state
	and I was a college of the second of the sec
	Continue to the continue to th
r, I	