

EX 1

Reduce ~~f~~ $\Sigma m(1, 2, 3, 5, 7)$

K-map

a/bc	00	01	11	10
0	0	1	1	1
1	0	1	1	0

n	binary	Σd_i	Sol t ($\Sigma d_i, n$)
1	001	1	1 001
2	010	1	2 010
3	011	2	4 100
4	010	1	3 011
5	101	2	5 101
7	111	3	7 111

1	001 ✓	Common 1's ⇒	1, 3	0 x 1 ✓
2	010 ✓		1, 5	x 0 1 ✓
3	011 ✓		<u>2, 3</u>	<u>0 1 x</u>
5	101 ✓		3, 7	x 1 1 ✓
7	111		5, 7	1 x 1 ✓

1, 3, 5, 7 x x 1
~~1, 3, 5, 7 x x 1~~

$\bar{a}b$	f	1	2	3	5	7	$f = \bar{a}b + c$
01x	2, 3		x	x			
c	1, 3, 5, 7	x		x	x	x	