

Homework 8

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Exercise 2

		$a(0)a(1)$			
		00	01	11	10
$a(2)a(3)$	00	0	1	1	1
	01	0	1	1	1
	11	0	1	1	1
	10	0	1	1	1

(a) K-map for y_1

		$a(0)a(1)$			
		00	01	11	10
$a(2)a(3)$	00	0	0	1	1
	01	0	0	1	1
	11	1	0	1	1
	10	1	0	1	1

(b) K-map for y_0

Figure 1: K-Map for Exercise-2

$$y_1 = a_0 + a_1$$

$$y_0 = a_0 + \bar{a}_1 a_2$$

