

Lab #1

$$D = \sum A_3 A_2 A_1 A_0 (0, 2, 4, 6, 8, 10, 12, 14)$$

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$A_3 A_2 \backslash A_1 A_0$		00	01	11	10
00	01	1			1
01	11	1			1
10	11	1			1
11	10	1			1

$$D = \overline{A_0}$$

$$0A_3A_2A_1 + 0A_3\overline{A_2}A_1 + 0A_3A_2\overline{A_1} + 0A_3\overline{A_2}\overline{A_1} + 1A_3A_2A_1 + 1A_3\overline{A_2}A_1 + 1A_3A_2\overline{A_1} + 1A_3\overline{A_2}\overline{A_1} = 1$$

$$0A_3\overline{A_2}A_1 + 0A_3A_2\overline{A_1} + 0A_3\overline{A_2}\overline{A_1} + 0A_3A_2A_1 + 0A_3\overline{A_2}A_1 + 0A_3A_2\overline{A_1} + 0A_3\overline{A_2}\overline{A_1} = 0$$