

Jalen Powell
Elec 2200

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Hw 27

0.)

State	0	1	2
A	B	D	1
B	C	B	0
C	E	A	1
D	B	D	1
E	A	E	0

Equivalent States

State	0	1	2
A	B	A	1
B	C	B	0
C	E	A	1
E	A	E	0

State	0	1	2
00	01	00	1
01	11	01	0
11	10	00	1
10	00	10	0

$Q_1 \backslash Q_0$	0	1
00	01	00
01	11	01
11	10	00
10	00	10

either or

1.)

$Q_1 \backslash Q_0$	0	1	D_1
00	0	0	0
01	1	0	0
11	1	0	0
10	0	1	0

$Q_1 \backslash Q_0$	0	1	D_0
00	1	0	0
01	1	1	0
11	0	0	0
10	0	0	0

$Q_1 \backslash Q_0$	0	1	z
0	1	0	0
1	0	1	0

2.)

$$D_1 = \bar{x} \bar{Q}_0 + x Q_1 \bar{Q}_0$$

$$D_0 = \bar{x} \bar{Q}_1 + \bar{Q}_1 Q_0$$

$$Z = \bar{Q}_1 \bar{Q}_0 + Q_1 Q_0$$

