

DOM ☐ SEG ☐ TER ☐ QUA ☐ QUI ☐ SEX ☐ SÁB ☐
DOM LUN MAR MEI JUE VIE SÁB

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EEL Circuitos Digitais

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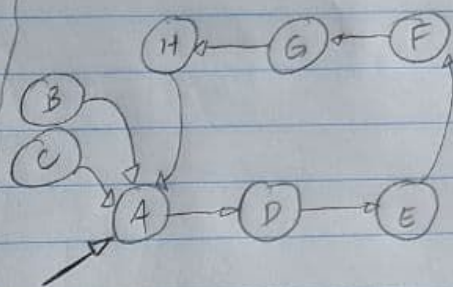
Matrícula: 20205642

Questão número 2)

1)

	s_2	s_1	s_0	w_2	w_1	w_0
A = 000	0	0	0	0	1	1
B = 001	0	0	1	0	0	0
C = 010	0	1	0	0	0	0
D = 011	0	1	1	1	0	0
E = 100	1	0	0	1	0	1
F = 101	1	0	1	1	1	0
G = 110	1	1	0	1	1	1
H = 111	1	1	1	0	0	0

Diagrama de estados:



2)

q_1	q_0	A	B	Q_1	Q_0	F
0	0	0	0	0	0	1
0	0	0	1	0	0	1
0	0	1	0	0	1	1
0	0	1	1	0	1	1
0	1	0	0	0	0	1
0	1	0	1	1	0	1
0	1	1	0	0	1	1
0	1	1	1	1	0	1
1	0	0	0	1	0	1
1	0	0	1	1	1	1
1	0	1	0	0	1	1
1	0	1	1	0	0	1
1	1	0	0	1	1	0
1	1	0	1	1	1	0
1	1	1	0	1	1	0
1	1	1	1	1	1	0

$$F = \overline{q_1} + \overline{q_0}$$

$$Q_1 = q_1 q_0 + B q_0 + \overline{A} q_1$$

$$Q_0 = q_1 q_0 + A \overline{q_0} + B q_0$$

Diagrama de estados:

