Name: Mey

unique name:

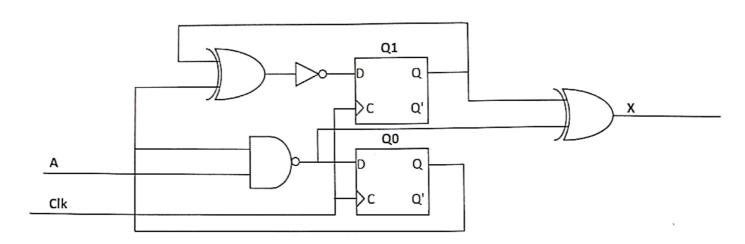
Honor code:

I have not given or received aid on this quiz, nor have I observed anyone else doing so:

Sign here: Ney

This quiz is graded out of 100 points and is worth about 4% of your class grade.

Closed everything including calculators! To receive partial credit, work must be shown.

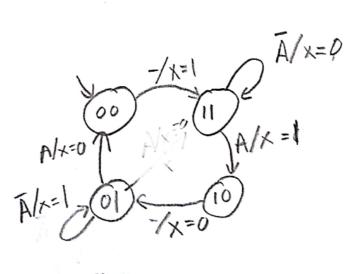


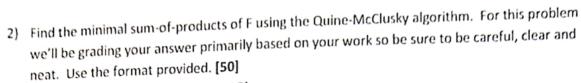
1) Draw the state transition diagram for the above circuit. You should assume "00" is the initial state. Please label each state as "Q1Q0" (so if Q1=1 and Q0=0 the label would be "10"). Don't include unreachable states (if any). [50]

$$D_{i} = \overline{Q_{o} \oplus Q_{i}}$$

$$P_{o} = \overline{A \cdot Q_{o}}$$

$$X = (\overline{A \cdot Q_{o}}) \oplus Q_{i}$$





 $F=\Sigma_{A,B,C,D}(0,5,8,10,11,14,15)$ 

	Column I	<b>✓</b>
0	0000	E. water
8	1000	2
5	0101	
10	1010	Barren
11	1011	1
14	1110	2000
15	(11)	V
0 - 315	1010	V V V

	Column II	<b>✓</b>
0,8	X000	
8,10	1000	
10,11	101 X	1
11,15	11/1	2
14,15	INIX	
10,14	1×10	Louise
1-111		

	Column III	✓
10,11,145	IXIX	
1 / 12	IXIX	

List of Prime Implicants (Provide in the form AB, AC', D)

List of distinguished ones (provide the binary value of each distinguished one):

