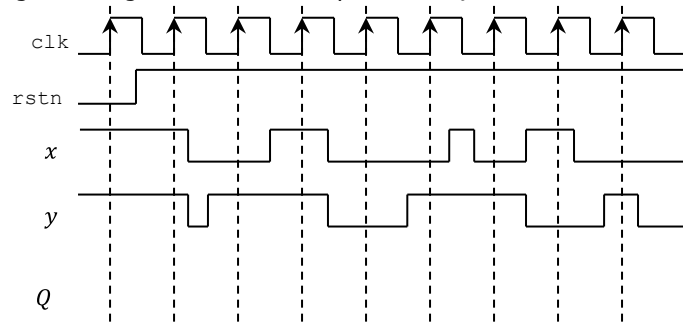# Quiz 3
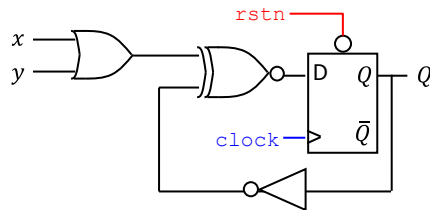
(March 21st @ 5:30 pm)
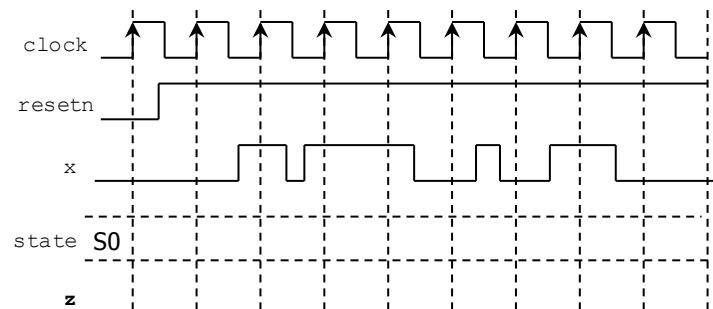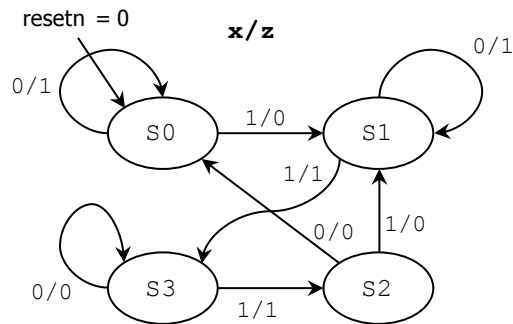
PROBLEM 1 (30 PTS)

- Given the following circuit, complete the timing diagram and get the excitation equation for Q.

$Q(t+1) \leftarrow$

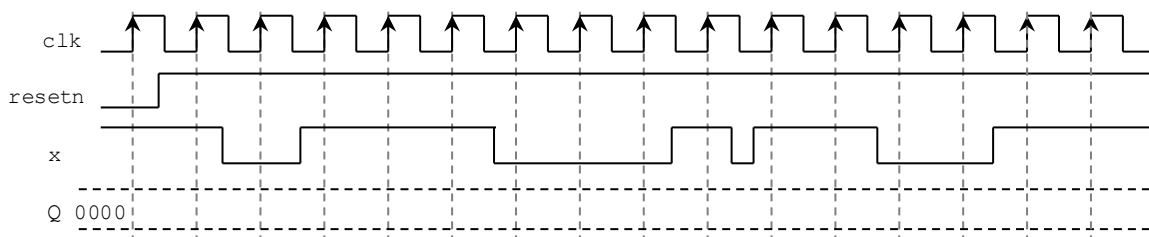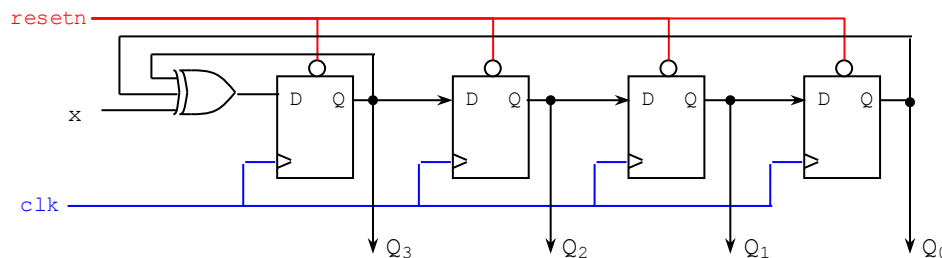## PROBLEM 2 (35 PTS)

- Complete the timing diagram of the following state machine (30 pts):

- For the given FSM diagram, circle or mark the correct FSM type: (Mealy)   (Moore)

PROBLEM 3 (35 PTS)

- Complete the timing diagram of the following circuit. $Q = Q_3Q_2Q_1Q_0$.
- Get the excitation equation for Q_3. (5 pts)

$Q_3(t+1) \leftarrow$