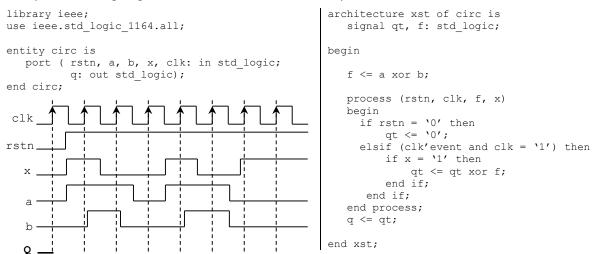
## Quiz 3

(November 5<sup>th</sup> @ 5:30 pm)

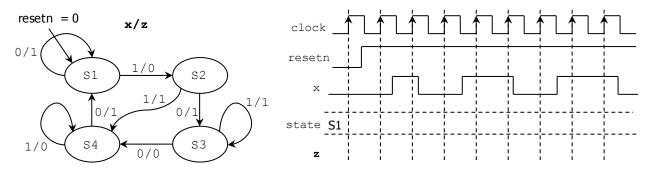
## PROBLEM 1 (30 PTS)

• Complete the timing diagram of the circuit whose VHDL description is shown below:



## PROBLEM 2 (30 PTS)

• Complete the timing diagram of the following state machine:



## PROBLEM 3 (40 PTS)

- Complete the timing diagram of the following circuit.  $Q = Q_3 Q_2 Q_1 Q_0$
- Get the excitation equation for  $Q_3$ . (5 pts)

