

The circuit shown in Figure 1 will be analyzed.

- 1) Find the Boolean functions of the flip-flop inputs ( $J_A$ ,  $K_A$ ,  $J_B$ ,  $K_B$ ).
- 2) Find the Boolean functions of the output ( $y$ ).
- 3) Find the state equations for A, B. ( $Q = Jq' + K'q$ ,  $Q(t+1) = JQ(t)' + K'Q(t)$ )
- 4) Draw the state transition table of the circuit.

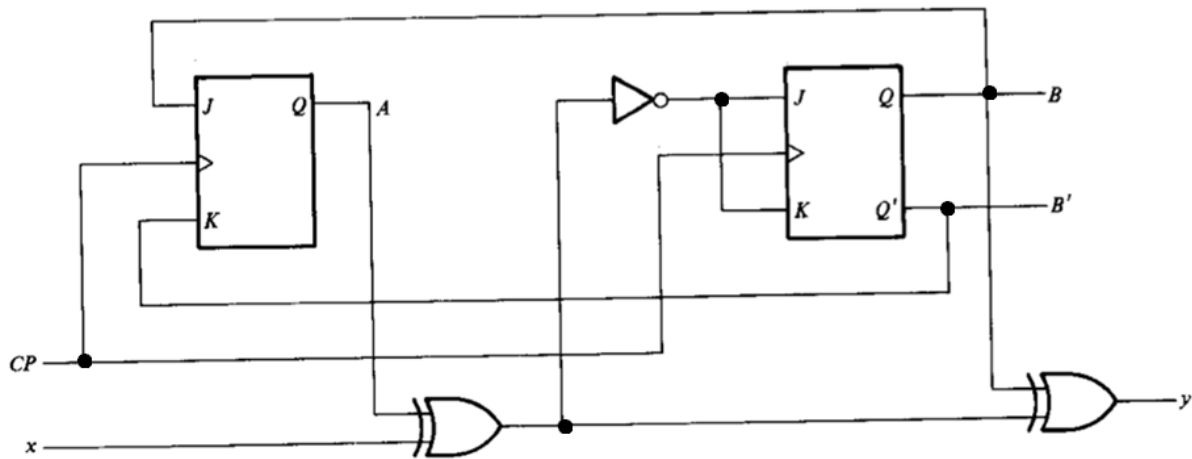


Figure 1