

The circuit shown in Figure 1 will be analyzed.

- 1) Find the Boolean functions of the flip-flop inputs (T1, T2).
- 2) Find the Boolean functions of the output (z).
- 3) Find the state equations for Q1, Q2. ($Q = T \oplus q$, $Q(t+1) = T \oplus Q(t)$)
- 4) Draw the state transition table of the circuit.

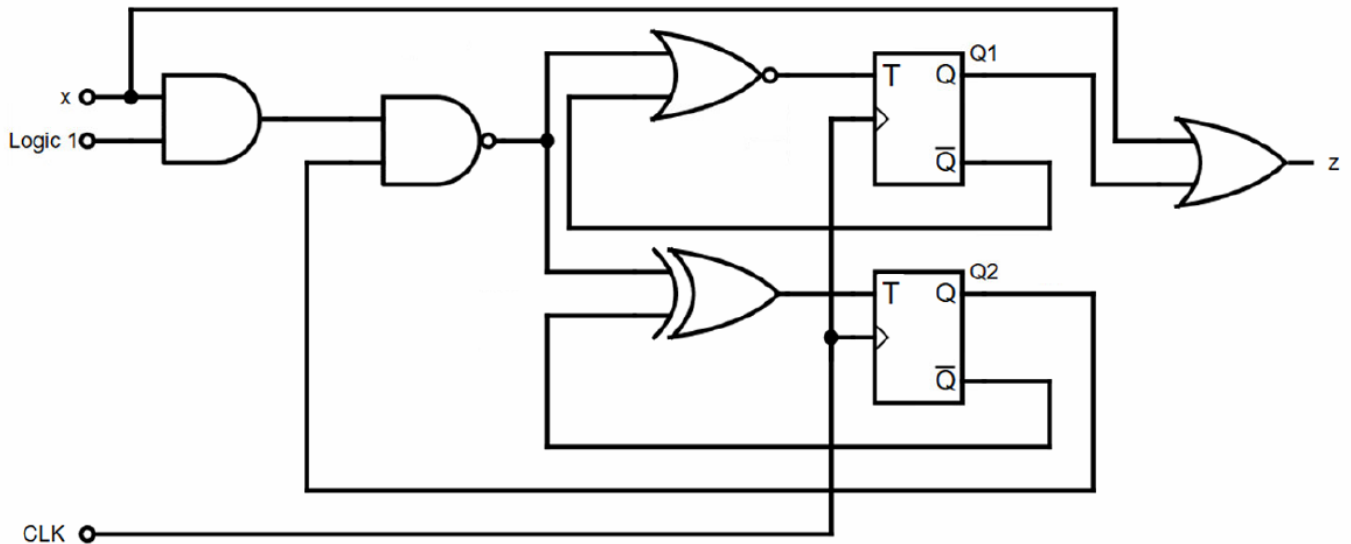


Figure 1