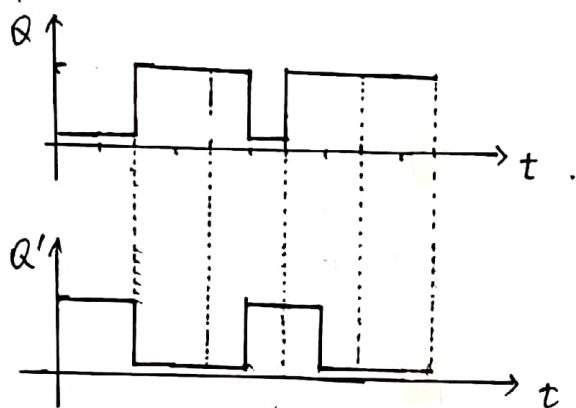
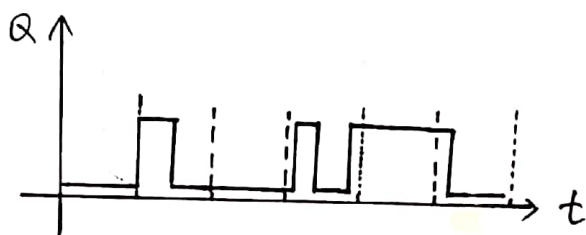


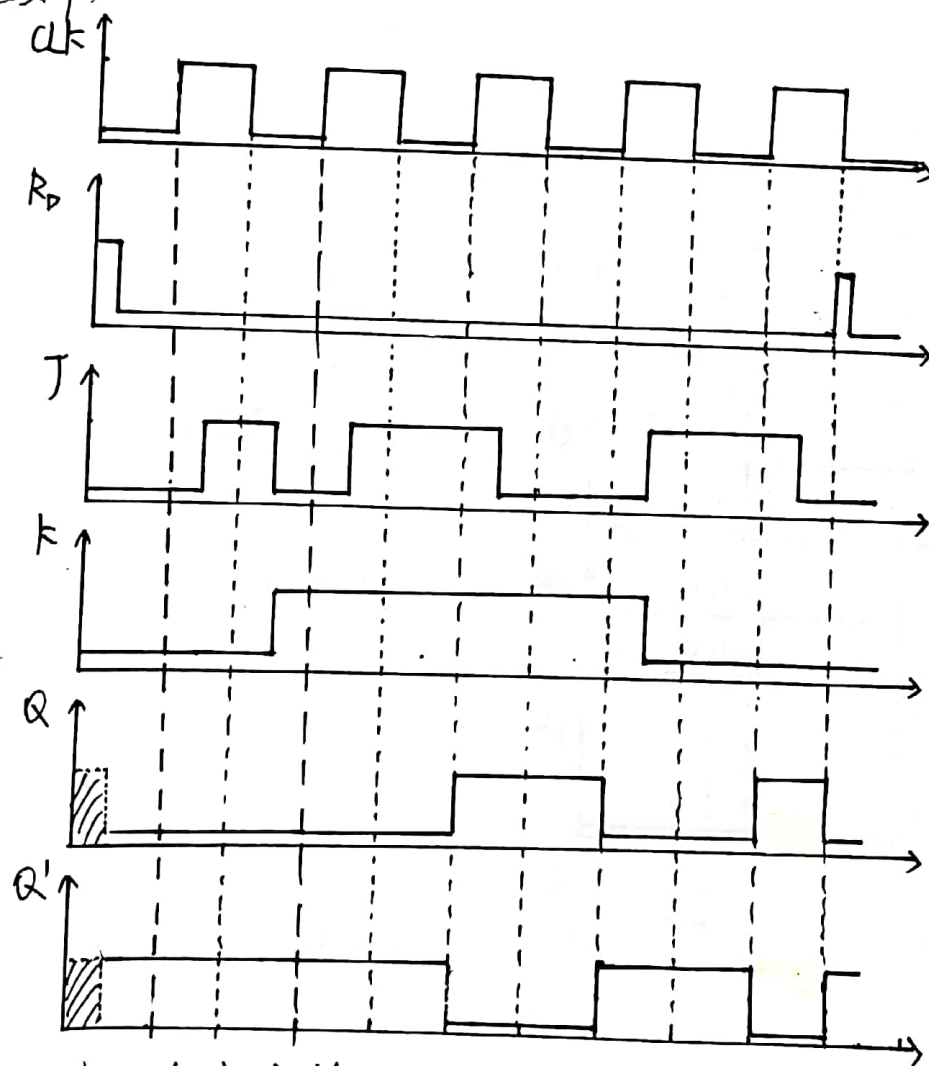
题 5.1



题 5.6  $CLK=C=1$  时  $Q^*=D$ .  $CLK=C=0$  时  $Q^*=Q$

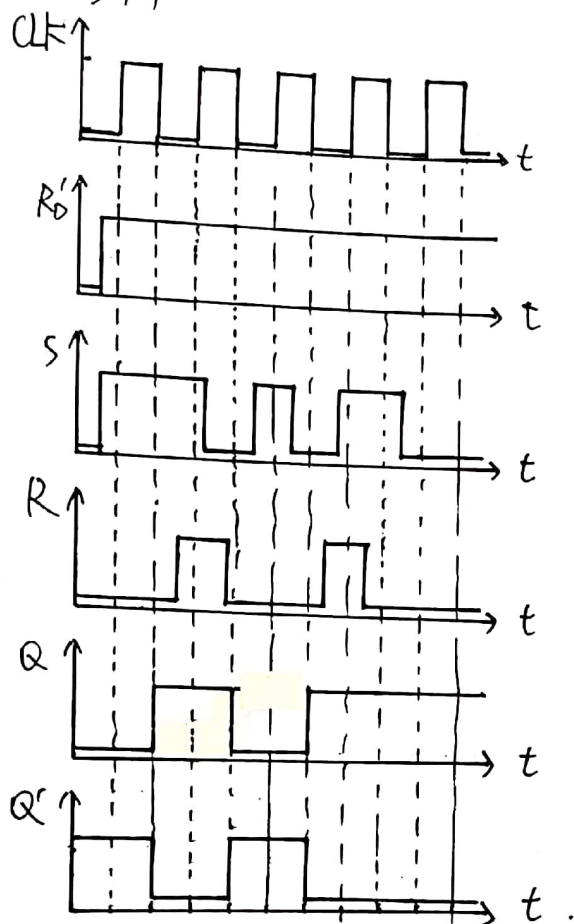


题 5.9

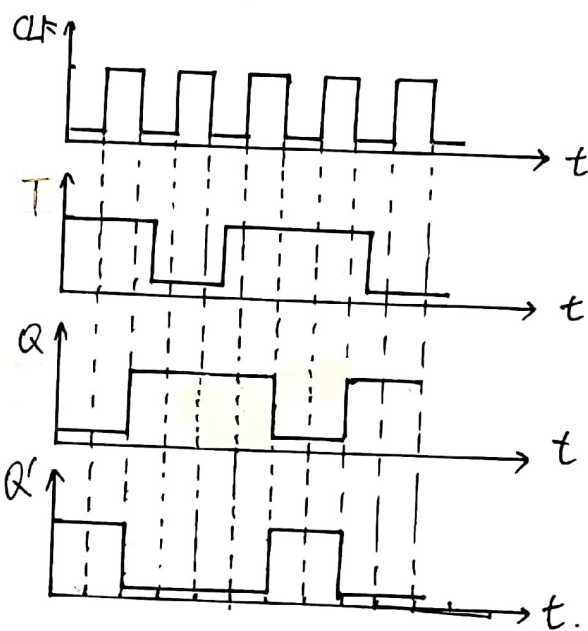


虚线区表示初态、抖动

题 5.14



题 5.16.



题 5.19

$$Q_1^* = JQ' + K'Q$$

$$J = (A + AQ_1')' = A'$$

$$K = (B + BQ_1)' = B'$$

$$Q_1^* = A'Q_1' + BQ_1$$

$$Q_2^* = S + R'Q_2$$

$$S = A \cdot B, R = (A + B)'$$

$$Q_2^* = AB + (A + B)'Q_2$$

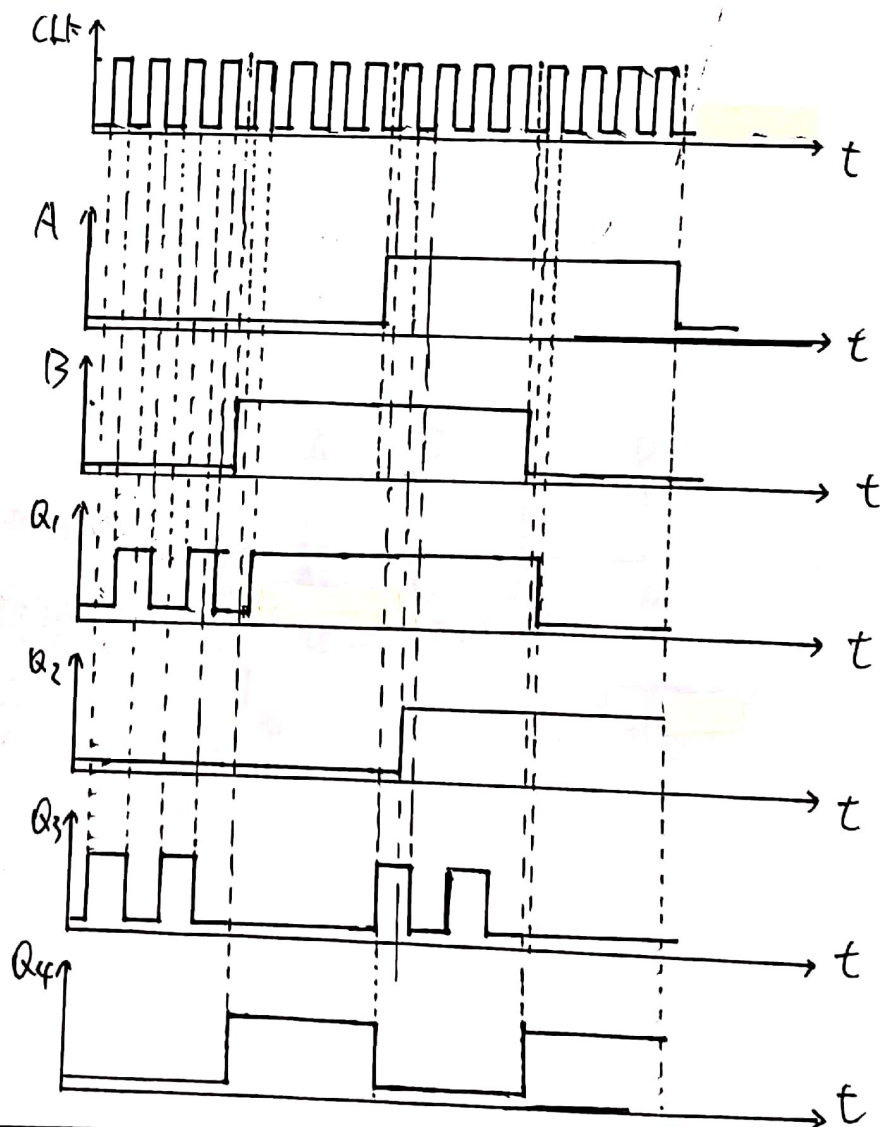
$$Q_3^* = TQ_3' + T'Q_3$$

$$T = A \oplus B$$

$$Q_3^* = (A \oplus B)Q_3' + (A \oplus B)'Q_3$$

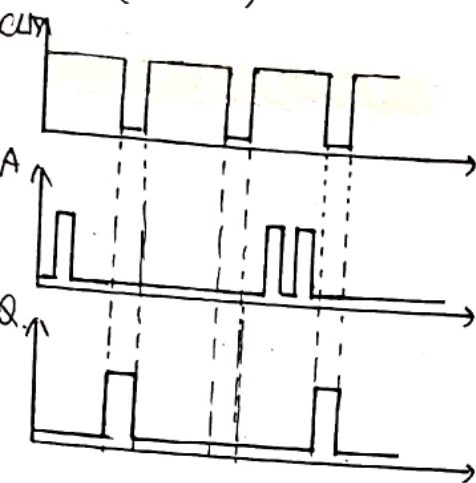
$$= (A \oplus B) \oplus Q_3$$

$$Q_4^* = D = A \oplus B$$

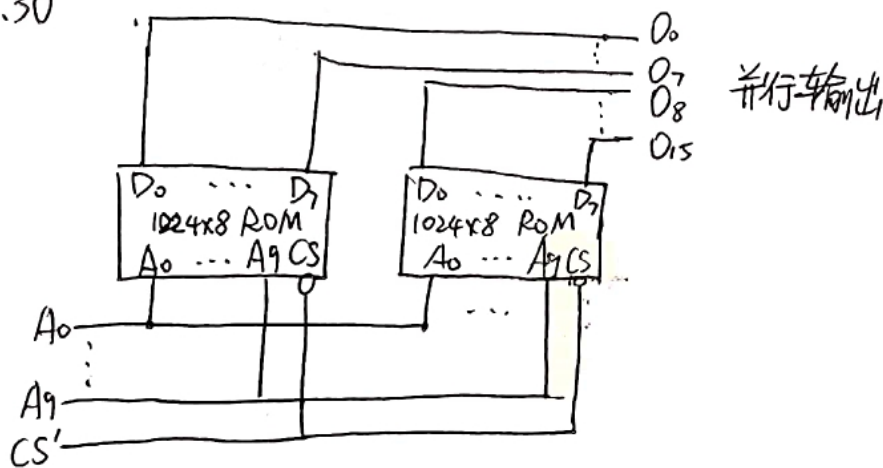


# 题 5.24

$$R = (CLK \cdot Q)'$$



# 题 5.30



# 题 5.38

$$Y_1 = m_0 + m_5 + m_{10} + m_{15}$$

$$Y_2 = m_2 + m_7 + m_8 + m_{13}$$

$$Y_3 = m_2 + m_5 + m_7 + m_{10}$$

$$Y_4 = m_0 + m_2 + m_5 + m_7 + m_8 + m_{10} + m_{13} + m_{15}$$

地址	数据	地址	数据
A <sub>3</sub> A <sub>2</sub> A <sub>1</sub> A <sub>0</sub>	D <sub>3</sub> D <sub>2</sub> D <sub>1</sub> D <sub>0</sub>	A <sub>3</sub> A <sub>2</sub> A <sub>1</sub> A <sub>0</sub>	D <sub>3</sub> D <sub>2</sub> D <sub>1</sub> D <sub>0</sub>
A B C D	Y <sub>1</sub> Y <sub>2</sub> Y <sub>3</sub> Y <sub>4</sub>	A B C D	Y <sub>1</sub> Y <sub>2</sub> Y <sub>3</sub> Y <sub>4</sub>
0 0 0 0	1 0 0 1	1 0 0 0	0 1 0 1
0 0 0 1	0 0 0 0	1 0 0 1	0 0 0 0
0 0 1 0	0 1 1 1	1 0 1 0	1 0 1 1
0 0 1 1	0 0 0 0	1 0 1 1	0 0 0 0
0 1 0 0	0 0 0 0	1 1 0 0	0 0 0 0
0 1 0 1	1 0 1 1	1 1 0 1	0 1 0 1
0 1 1 0	0 0 0 0	1 1 1 0	0 0 0 0
0 1 1 1	0 1 1 1	1 1 1 1	1 0 0 1

