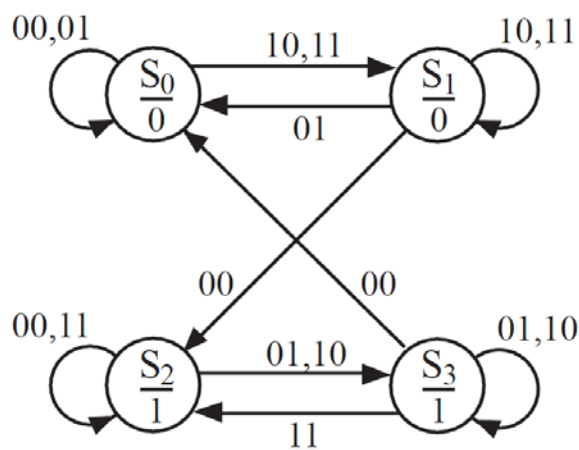


14.4 see p.741 in the textbook

14.5 see p.741 in the textbook

14.6

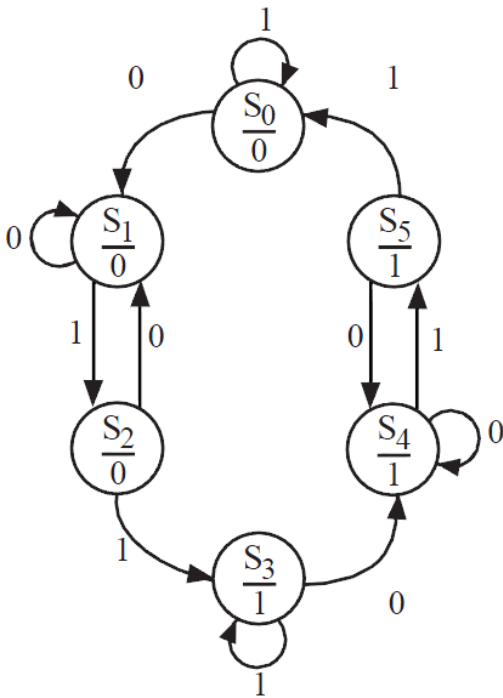


State	Meaning
S_0	$Z = 0$ and last input was either 00 or 01
S_1	$Z = 0$ and last input was either 10 or 11
S_2	$Z = 1$ and last input was either 00 or 11
S_3	$Z = 1$ and last input was either 01 or 10

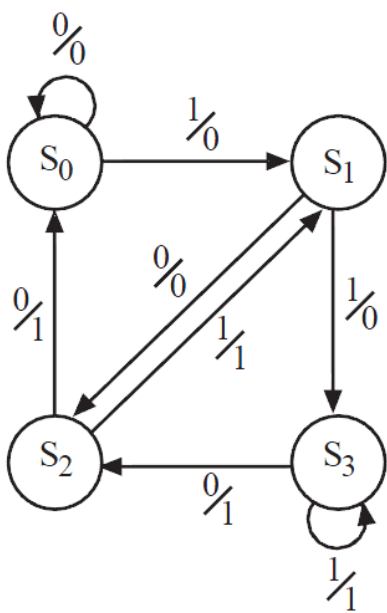
State	Next State				Z
	$X_1X_2 = 00$	01	10	11	
S_0	S_0	S_0	S_1	S_1	0
S_1	S_2	S_0	S_1	S_1	0
S_2	S_2	S_3	S_3	S_2	1
S_3	S_0	S_3	S_3	S_2	1

14.10 see p.763 in the textbook

14.26



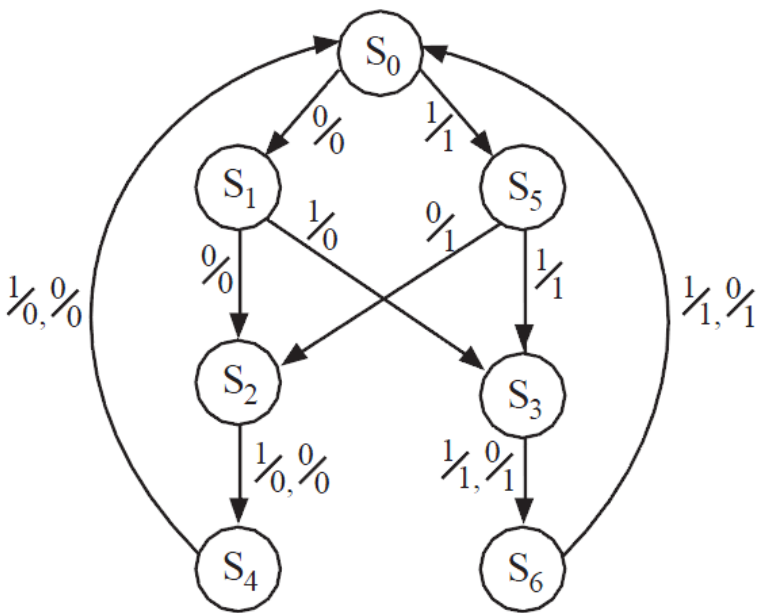
14.34



State	Next State		Z	
	X = 0	X = 1	X = 0	X = 1
S ₀	S ₀	S ₁	0	0
S ₁	S ₂	S ₃	0	0
S ₂	S ₀	S ₁	1	1
S ₃	S ₂	S ₃	1	1

State	Meaning
S ₀	Previous two inputs were 00
S ₁	Previous two inputs were 01
S ₂	Previous two inputs were 10
S ₃	Previous two inputs were 11

14.41



State	Next State		Z	
	X = 0	X = 1	X = 0	X = 1
S ₀	S ₁	S ₅	0	1
S ₁	S ₂	S ₃	0	0
S ₂	S ₄	S ₄	0	0
S ₃	S ₆	S ₆	1	1
S ₄	S ₀	S ₀	0	0
S ₅	S ₂	S ₃	1	1
S ₆	S ₀	S ₀	1	1

State	Meaning
S ₀	Reset
S ₁	A = 0
S ₅	A = 1
S ₂ , S ₄	B = 0
S ₃ , S ₆	B = 1