$$(0) -a > (0) -a > (0) -b > (0) -b > (0)$$

$$(0) -a > (1) -a > (1) -b > (1) -b > (1)$$

(0) -a-> (1) -a-> (2) -b-> (2) -
$$\epsilon$$
-> (0) -b-> (0)

(0) -a-> (1) -a-> (2) -
$$\epsilon$$
-> (0) -b-> (0) -b-> (0)

Yes, this NFA accepts aabb to an accepting state

3.6.4: (0) -a-> (1) -
$$\epsilon$$
 -> (0) -a-> (1) -b-> (2) -b-> (3)

$$(0) - \varepsilon \rightarrow (3) - a \rightarrow (0) -a \rightarrow (1) -b \rightarrow (2) -b \rightarrow (3)$$

This NFA does accept aabb to an accepting state

3.6.5: a-

State	Input(a)	input(b)	input( <b>ε</b> )
0	{0, 1}	{0}	Ø
1	{1, 2}	{1}	Ø
2	{2}	{2,3}	{0}
3	Ø	Ø	Ø

b-

State	input(a)	input(b)	input(ε)
0	{1}	Ø	{3}
1	Ø	{2}	{0}
2	Ø	{3}	{1}
3	{0}	Ø	{2}

## 3.7.3: a- Transition Table:

 State
 a
 b

 A: 0,1,2,3,7
 B
 C

 B: 1,2,3,4,6,7
 B
 C



