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1. RE: $x.(x.y(y.x)^+ . x^* . y. \#$

a. Follow post 1 : 2,4

2 : 3

3 : 2,4,6,7

4 : 5

5 : 2,4,6,7

6 : 6,7

7 : 8

8 : -

b. State

x

x

→ 1

2,4

2,4

3

5

3

2,4,6,7

5

2,4,6,7

2,4,6,7

3,6,7

8

3,6,7

6,7

2,4,6,7,8

* 5,8

2,4,6,7

6,7

6,7

8

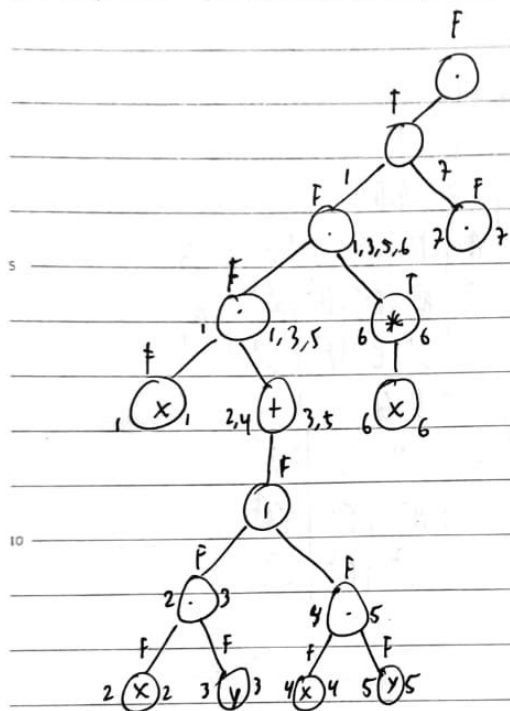
* 2,4,6,7,8

3,6,7

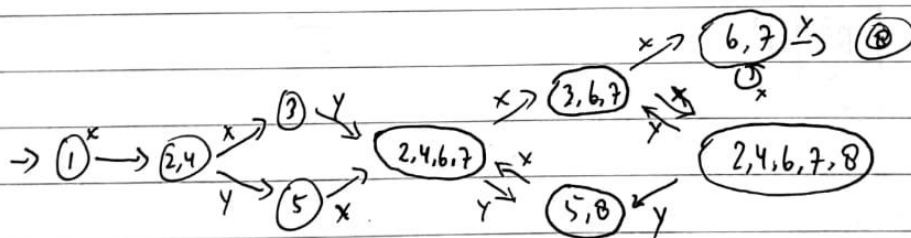
5,8

* 8

Date _____



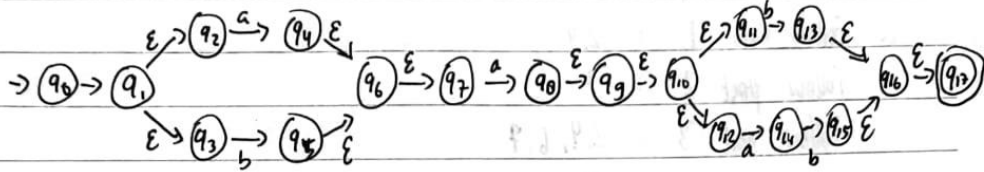
15 C.



20

Date

2 a.



b. ϵ close

(q_0)	$= \{0, 1, 2, 3, 7\}$
(q_1)	$= \{1, 2, 4\}$
(q_2)	$= \{2\}$
(q_3)	$= \{1, 2, 3, 4, 6, 7\}$
(q_4)	$= \{4\}$
(q_5)	$= \{1, 2, 4, 5, 6, 7\}$
(q_6)	$= \{1, 2, 4, 6, 7\}$
(q_7)	$= \{7\}$
(q_8)	$= \{8, 9, 10, 12, 17\}$
(q_9)	$= \{9, 10, 12\}$
(q_{10})	$= \{10\}$
(q_{11})	$= \{9, 10, 11, 12, 16, 17\}$
(q_{12})	$= \{12\}$
(q_{13})	$= \{13, 14\}$
(q_{14})	$= \{14\}$
(q_{15})	$= \{9, 10, 12, 15, 16, 17\}$
(q_{16})	$= \{9, 10, 12, 16, 17\}$
(q_{17})	$= \{17\}$

Date / /

State	a	b
E_2	4,8	5
E_4, E_8	8,14	13
E_5	\emptyset	5
E_8, E_{14}	14	13,15
E_{13}	\emptyset	\emptyset
E_{14}	\emptyset	15
E_{13}, E_{15}	14	13
E_{15}	14	13

