



Mo Tu We Th Fr Sa Su

Memo No. _____

Date / /

$$1. RE = X.(X.Y|Y.X)^+.X^*.y.\#$$

1 2 3 4 5 6 7 8

$$2. FP(1) = (2,4)$$

$$FP(2) = (3)$$

$$FP(3) = (2,4,6,7)$$

$$FP(4) = (5)$$

$$FP(5) = (2,4,6,7)$$

$$FP(6) = (6,7)$$

$$FP(7) = (8)$$

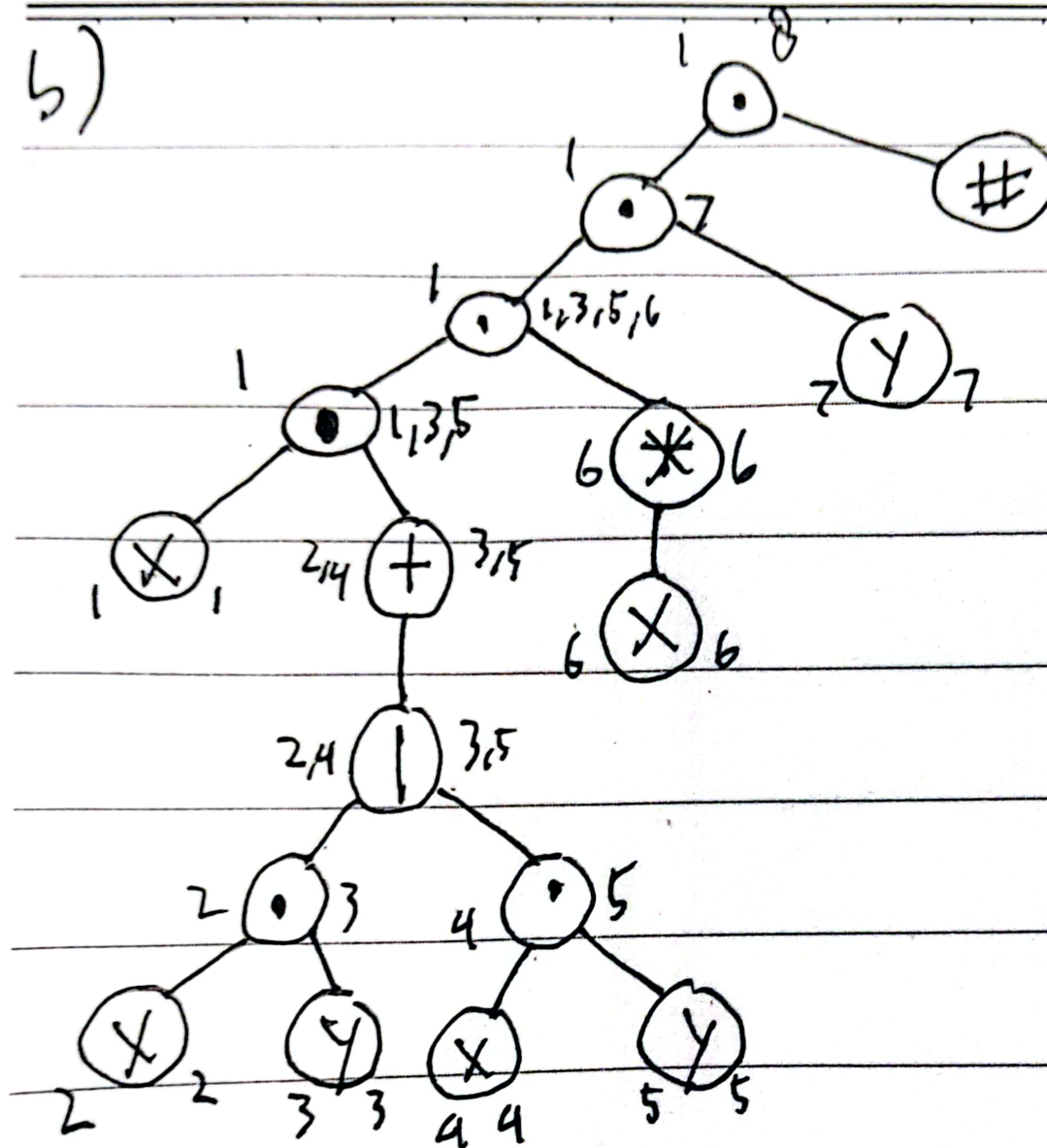
$$FP(8) = (-)$$



Mo Tu We Th Fr Sa Su

Memo N
Date

b)



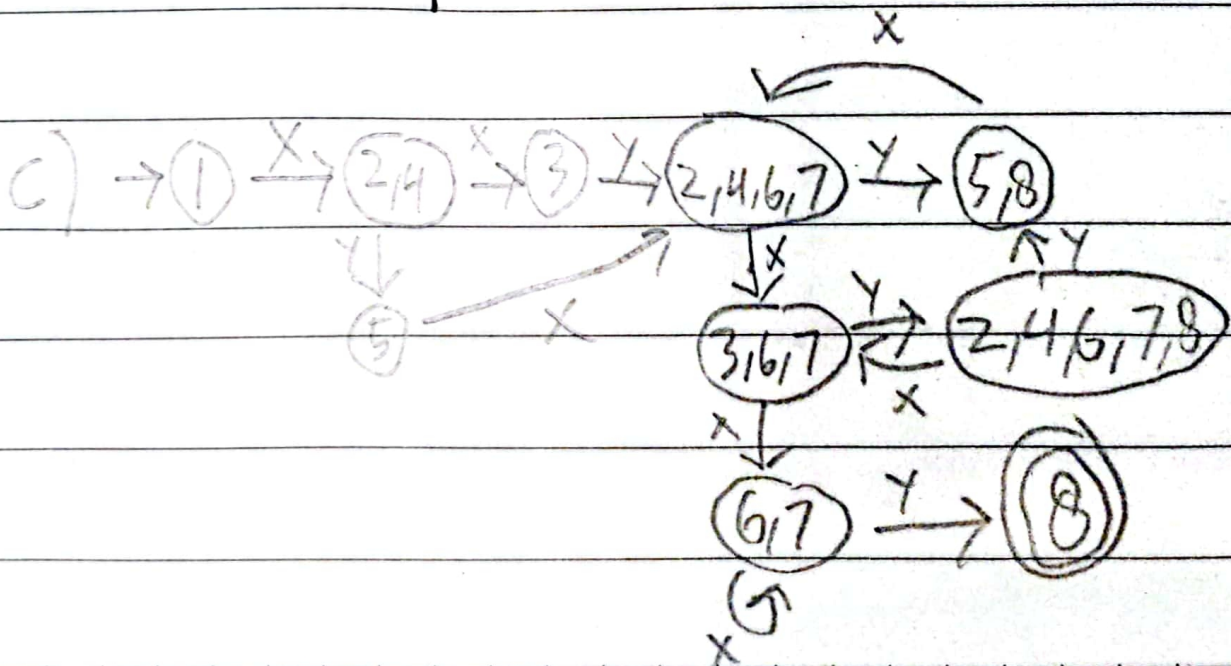


Mo Tu We Th Fr Sa Su

Memo No. _____

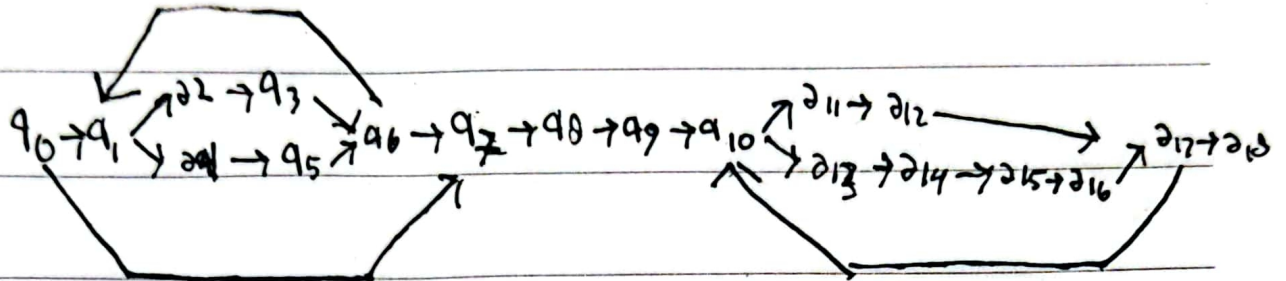
Date / /

State	X	Y
1	2,4	-
2,4	3	5
3	-	2,4,6,7
2,4,6,7	3,6,7	5,8
5	2,4,6,7	-
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	-	-



2) RE (a/b)* a(b/a)*

a)



b.) $q_0 = 0, 1, 2, 4, 7, 8$

$q_1 = 1, 2, 4$

$q_2 = 2$

$q_3 = 1, 2, 3, 4, 6, 7, 8$

$q_4 = 4$

$q_5 = 1, 2, 3, 4, 5, 6, 7, 8$

$q_6 = 1, 2, 4, 6, 7, 8$

$q_7 = 7, 8$

$q_8 = 8$

$q_9 = 9, 10, 11, 13$

$q_{10} = 10, 11, 13$

$q_{11} = 11$

$q_{12} = 10, 11, 12, 13, 17, 18$

$q_{13} = 13$

$q_{14} = 14, 15$

$q_{15} = 15$

$q_{16} = 10, 11, 13, 16, 17, 18$

$q_{17} = 17, 18$

$q_{18} = 18$

State	a	b
S0	S1	S2
S1	S3	S4
S2	S1	S2
S3	S3	S5
S4	S3	S4
S5	S3	S5

