Lab Practices examples

1. a + ba

**a**

**ba**

1. a\* + b

**b**

**aa**

**aaaa**

**aaaaaa**

1. a\* + b\*

**bb**

**aa**

**bbb**

**b**

**bbbbb**

1. ab\*

**abb**

**ab**

**abbb**

**a**

**abbbb**

1. (ab)\*

E

**ab**

**ababab**

**abab**

**abababab**

1. (a+b)\*

**ab**

**abababaaaaabaab**

**aab**

**abaab**

**ababaaaab**

1. abb\*

**abbbb**

**ab**

**abbbbb**

**abb**

**abbbbbb**

1. a\*b\*

**b**

**ab**

**bbb**

**aab**

1. a(ba)\*b

**ab**

**abab**

**ababab**

**abababababababab**

**ababababab**

1. (b+aaa)\*

**baaabaaa**

**baaa**

**bbaaa**

**bbbaaabbaaa**

**bbbbaaa**

1. aba+bab

**ababab**

**abaaaaabab**

**abaaaaaabab**

**abaabab**

**abaaabab**

*aba as a substring*

*(a+b)\*aba(a+b)\**

L := {w 2 fag ∗ j jwj is odd}

(a+b) (aa+bb+ab+ba)\*

*does not contain* 00 *as a substring*

*(0+1)\*00(0+1)\**

*has even number of a’s and b’s*

*(aa+bb)\**

(aa+bb+(ab+ba)(aa+bb)\*(ab+ba))\*

*divisible by* 3

( (a+b)(a+b)(a+b))\*

*does not contain a; b; or c*

*(a+b)\*+(a+c)\*+(b+c)\**

- L := {w 2 fa; bg∗ j the substring ab occurs exactly twice in w; but not at the endg:

b∗a+b+a+b(b+a∗+b∗a+)