* **{ W | w contains exactly two a’s }**

**RE = b\* a b\* a b\***

* **{ W | w contains at least two a’s }**

**RE = (a+b)\* a (a+b)\* a (a+b)\***

* **{ W | w contains at most two a’s }**

**RE = b\* (a+) b\* (a+) b\***

* **{ W | w contains odd number of a’s }**

**RE = b\* a b\* (a b\* a b\*)\***

* **{ W | w contains odd number of b’s }**

**RE = a\* b a\* (b a\* b a\*)\***

* **{ W | w contains even number of a’s }**

**RE = b\* + ( b\* ab\* ab\* )\***

* **{ W | w contains even number of b’s }**

**RE = a\* + ( a\* ba\* ba\* )\***

* **{ W | w has even length }**

**RE = ( (a+b) (a+b) )\***

* **{ W | w has odd length }**

**RE = (a+b) ( (a+b) (a+b) )\***

* **{ W | w contains even number of a’s and b’s }**

**RE = { aa + bb + (ab+ba) (aa+bb)\* (ab+ba) }\***

* **{ W | w contains only a’s or only b’s }**

**RE = (aa\*) + (bb\*)**