

# BİCİMSİZ DİLLER VE OTOMATA

## ÖDEV 4-

Canan Dal  
18253039  
~~Canan~~

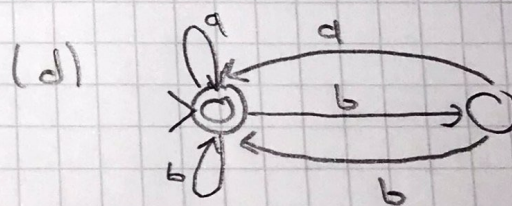
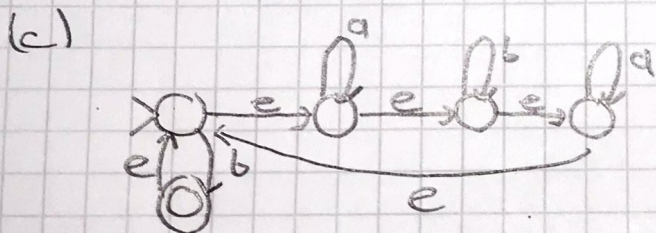
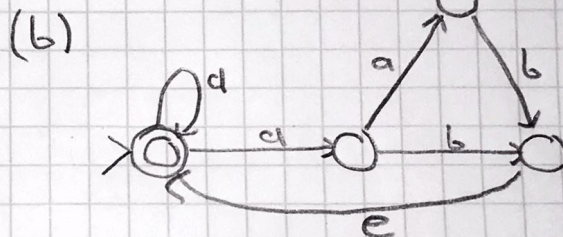
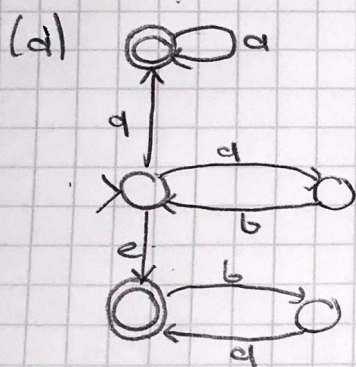
### Problem 2.2.1

- (a) Otomat  $a, aa$  ve  $e$  yi kabul eder.  $aab$  yi reddeder  
(b) Otomat  $e, ab, abab$  ve  $aba$  'yi kabul eder.  $abaa$  yi reddeder

### Problem 2.2.2

- (a)  $a^*$ .  
(b)  $\emptyset^* \cup a(ba \cup baa)^*(b \cup ba)$

### Problem 2.2.3



### Problem 2.2.6

$(ab \cup aab \cup aba)$

(a)

$$K = \{q_0, q_1, q_2, q_3\}$$

$$\Sigma = \{a, b\}$$

$$s = q_0$$

$$F = \{q_0\}$$

$q_i, \sigma, q_f$
$(q_0, a, q_1)$
$(q_1, a, q_2)$
$(q_1, b, q_0)$
$(q_2, a, q_0)$
$(q_3, b, q_0)$