1: Formal Definition

(a) Draw the NFA diagram given by the following formal definition:
$N = (\{A, B, C, D\}, \{0, 1\}, \delta, B, \{A, D\})$

δ	0	1	ϵ
A		$\{A\}$	
B			$\{A, C\}$
C	$\{C, D\}$	$\{C\}$	
D			

(b) Which language does the NFA recognize?

2: Design a NFA

Construct a NFA that recognizes the following languages, assuming alphabet $\{0, 1\}$

(a) $L_1 = \{w |\ w \text{ ends with } 01\}$

(b) $L_2 = 0^*1^*0^+$

3: NFA to DFA

Convert the following NFA to a DFA.