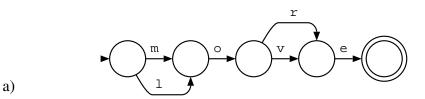
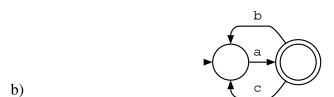
Computer Mathematics

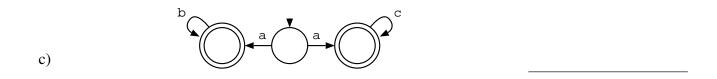
Week 14 Examples

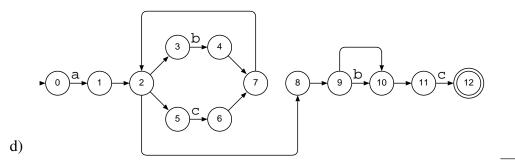
1. Write the grammars corresponding to the following FSMs. In each case, try to use only rules of the form

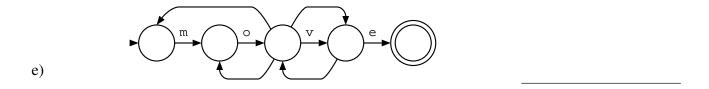
 $non\text{-}term \rightarrow \text{term } non\text{-}term, \qquad \text{or} \\ non\text{-}term \rightarrow \text{term}$











2. Convert the following grammars into equivalent FSMs and regular expressions.					
]	$egin{aligned} \mathbf{A} & ightarrow \mathbf{a} & \mathbf{B} \ \mathbf{B} & ightarrow \mathbf{b} & \mathbf{C} \ \mathbf{C} & ightarrow \mathbf{a} & \mathbf{B} & \mid \mathbf{c} & \mathbf{D} \ \mathbf{D} & ightarrow \mathbf{c} & \mathbf{C} & \mid \mathbf{c} \end{aligned}$	FSM:			_ RE:
FSM: RE:					
a)	abc	RG:			
b)	a*b*c	RG:			
c)	a b c	RG:			

d) ((a|bc)*cd?)+e|f RG: