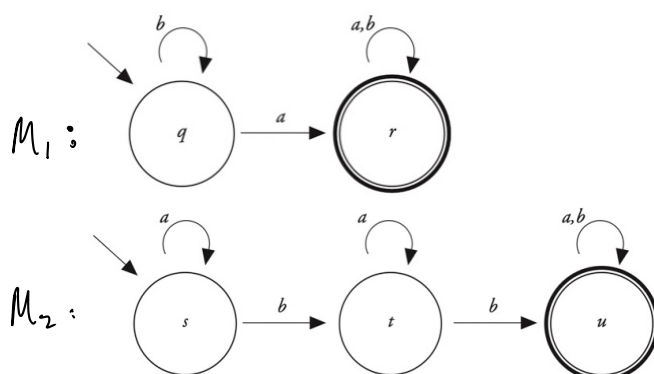


Math 3342 HW #3

Chapter 3, #4b

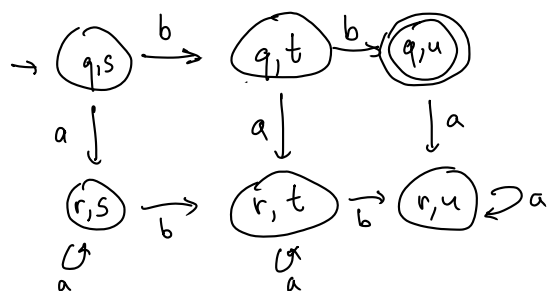
Chapter 5, #3c, 5d, 7a

#4b



For $\bar{L}_1 \cap L_2$, make accepting states any which are rejecting on M_1 , and accepting on M_2 .

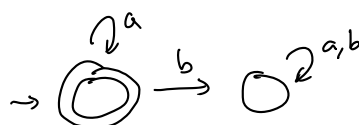
In this case, only (q, u)



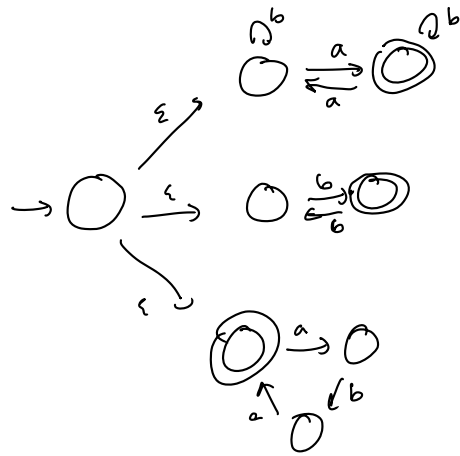
#3c

The NFA accepts any string $\{a^n\}$

so a DFA is:



#54 $\{x \mid \#a's \text{ is odd}\} \cup \{b^n \mid n \text{ is odd}\} \cup \{(aba)^n\}$



#7a

