

Math 3342

Homework #4

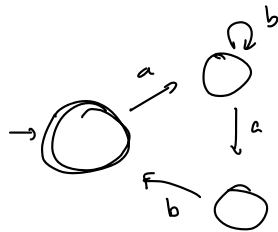
Chapter 7 #1g, 5,

Extra problems #1, 2

#1g $(a+b)^*aaa(a+b)^*$



#5



regex: $(ab^*ab)^*$

#1 $\frac{d}{da} \{aba^n\} = \{ba^n\}$

#2 $\frac{d}{d1} \{1^n 0^m\} = \{1^n 0^m\},$

this is the same as $\{1^{n-1} 0^m\},$

since both mean: some 1s followed by some 0s.