

Math 3342 HW # 7
Chapter 10 # 5c, 7b, 10f, 11e

#5c $L(a^*b^*c^*)$

$$S \rightarrow ABC$$

$$A \rightarrow aA \mid \varepsilon$$

$$B \rightarrow bB \mid \varepsilon$$

$$C \rightarrow cC \mid \varepsilon$$

#7b

$$G = \left(\{S, A\}, \{a, b\}, S, \{S \rightarrow abS, S \rightarrow A, A \rightarrow bA, A \rightarrow \varepsilon\} \right)$$

#10f

$$S \Rightarrow AB \Rightarrow aAB \Rightarrow aaAB \Rightarrow aaB$$

$$\Rightarrow aabB \Rightarrow aabbB \Rightarrow aabb$$

#11e

things like $[1, 0, 2]$

$$S \rightarrow [T]$$

$$T \rightarrow d \mid d, T$$

$$d \rightarrow 0 \mid 1 \mid 2 \mid \dots \mid 9$$