

1) Determine os conjuntos FIRST e FOLLOW das gramáticas abaixo:

a)

$$S \rightarrow AB$$

$$A \rightarrow aA \mid a$$

$$B \rightarrow bB \mid b$$

b)

$$S \rightarrow ABd$$

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

$$B \rightarrow bB \mid cA \mid AC$$

$$C \rightarrow cB \mid \varepsilon$$

c)

$$S \rightarrow A \mid BC$$

$$A \rightarrow aAS \mid D$$

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

$$C \rightarrow cC \mid c$$

$$D \rightarrow gD \mid C \mid \varepsilon$$

d)

$$S \rightarrow XYZ$$

$$X \rightarrow aXb \mid \varepsilon$$

$$Y \rightarrow cYZcX \mid d$$

$$Z \rightarrow eZYe \mid f$$