

Questão 2:

a) $G = (V, T, P, S)$ $V = \{S, X, Y\}$ $T = \{a, b, c\}$

$$P = \{ S \rightarrow XaX \mid a$$

$$X \rightarrow Ya \mid aY \mid Yb \mid bY \mid cY \mid Yc \mid a \mid b \mid c$$

$$Y \rightarrow X1 \mid Xc \mid Xa \}$$

b) $G = (V, T, P, S)$ $V = \{S, X, Y, Z, K\}$ $T = \{a, b, c\}$

$$P = \{ S \rightarrow XY \mid ZK$$

$$X \rightarrow aXb$$

$$Y \rightarrow cY \}$$