

Task 3: Theory, Javier Fernández Rozas

a)

Lexeme := Number | Operator | Command

Number := {0..9} <Number>

Operator := + | - | * | /

Command := p | d | i | c

b)

Expression ::= Number

 | "(" Operator Expression Expression ")"

Number := {0..9} <Number>

Operator := + | - | * | /

c)

In a) The grammar is Context-free, production is on the form $\alpha \rightarrow \gamma$

In b) The grammar is Context-Sensitive, production is on the form $\alpha \nu \beta \rightarrow \alpha \gamma \beta$.