Gramatyka:

S::= -A|A

A::=RL

R::= PR’

R’::=R| ε

P::=LO

L::= NL’ | 0

L’::= ε | .M

N::=EN’ | 0

N’::=M| ε

M::=DM’ | ε

M’::=M | ε

D::=0|1|2|3|4|5|6|7|8|9

E::= 1|2|3|4|5|6|7|8|9

O::==|-|/|\*|/|^

Wyrażenia regularne wyprowadzone na podstawie gramatyki:

|  |  |
| --- | --- |
| S::= -A|A | ^[-]?(([1-9]\d\*|0)(\.\d+)?[+\-/\\*^])+\d+(\.\d+)?$ |
| A::=RL | (([1-9]\d\*|0)(\.\d+)?[+\-/\\*^])+\d+(\.\d+)? |
| R::= PR’ | ((([1-9]\d\*|0)(\.\d+)? [+\-/\\*^])+ |
| R’::=R| ε | (([1-9]\d\*|0)(\.\d+)?[+\-/\\*^])? |
| P::=LO | (([1-9]\d\*|0)(\.\d+)? [+\-/\\*^]) |
| L::= NL’ | 0 | ([1-9]\d\*|0)(\.\d+)? |
| L’::= ε | .M | (\.\d+)? |
| N::=EN’ | 0 | [1-9](\d)\* | 0 |
| N’::=M| ε | \d? |
| M::=DM’ | ε | \d\* |
| M’::= M| ε | \d? |
| D::=0|1|2|3|4|5|6|7|8|9 | \d |
| E::= 1|2|3|4|5|6|7|8|9 | [1-9] |
| O::==|-|/|\*|/|^ | [+\-/\\*^] |